

EIGHTEENTH YEAR, No. 9.

MILWAUKEE, SEPTEMBER, 1893.

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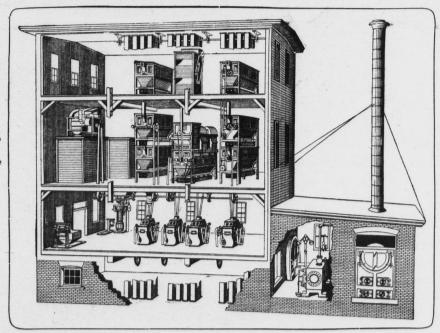
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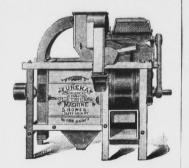


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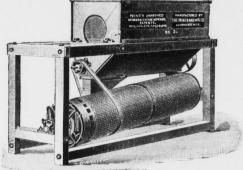
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EIGHTEENTH YEAR, No. 9.

#### MILWAUKEE, SEPTEMBER, 1893.

\$1.00 per Year. 10c. per Copy.

THE NEW PRESIDENT OF THE NATIONAL ASSOCIATION OF BRITISH AND IRISH MILLERS.

(By permission of The Miller, London.)

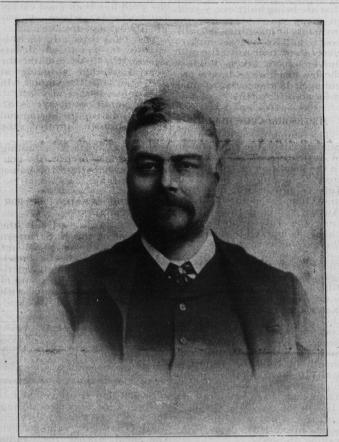
THE culminating event in each year's history of the National Association of British and Irish Millers is the election of the President for the twelve months' session, which Phœnixlike, is about to spring from the dying year's ashes. At its lately held fifteeenth general meeting, the Association elected Mr. Edgar Appleby, senior partner in the well-known Lancashire milling firm of Joseph Appleby & Sons, to its supreme office. Mr. Appleby is the thirteenth President on whom has fallen the choice of the Association during its fifteen years of exist-ence. The first President, Mr. Simeon Charles Hadley, served a double term; and Mr. R. H. Appleton has been elected to the chair on two different occasions. With regard to the new President, it is worth noting that the honor which now belongs to him was pressed on his acceptance as far back as 1889, when he was constrained by the heavy claims of his business, to withhold the acceptance that subsequent events have shown to be merely deferred.

Mr. Edgar Appleby may be described as a miller by inheritance, seeing that his family have been engaged in the ancient and honorable art of flour making for over two centuries. Mr. Joseph Appleby, his father, settled at Enfield Mills in Lancashire, in 1841, and at that place and in the same year, the subject of this notice was born. Having elected to follow the ancestral calling, he was early initiated into all the mysteries of the craft. When but a lad of seventeen, he used to be the regular companion of his father Wakefield markets, and thus was, no doubt, laid the foundation of that thorough knowledge of wheat, which has done so much to place him among the the busy town which he has county of Lancashire. A shrewd foremost millers of Lancashire. made the headquarters of his critic of machinery, he has ever In 1862, Mr. Joseph Appleby found his son so far advanced ticeship to public life in 1866, in the various branches of the

mills, where he remained six came a member of the Town day and perfecting himself in the difficult art of managing a mill. In 1868 he was transferred to the more responsible position of chief of the Burnley Mills, where he remained till 1873, when he was called to Blackburn to undertake the superintendence of the chief mill and central offices of the firm, and of British and Irish Millers, the

years, gaining experience each Council, but retired in 1879 on the bereavement he had experienced in the loss of his father. It was not till 1885 that he reentered municipal life, when he was re-elected Town Councilor. In the following year he was elected by his fellow citizens to the highest office in their gift.

To the National Association



MR. EDGAR APPLEBY.

in his weekly trips to Leeds and here he has remained ever new chief will, before all else, since.

Mr. Edgar Appleby is something more than a miller, he is trade. He served his appren- held broad views on the equipwhen he was elected a mem- faith to one system to the ex-

present himself as a miller. He is admitted to be one of the soundest judges of wheat and one of the foremost citizens of keenest marketmen in all the ment of mills, not pinning his

of business, and the words he spoke, at the meeting of the Association, held in Liverpool, on the 15th day of November, last year, will bear requoting. Speaking of the practice of booking forward to bakers, a practice which, in a drooping market, such as then reigned in all England, is ever fraught with loss to the flour seller, he said: "Forward selling is a growing evil. Why a man with little more than £20 in his pocket, should become a speculator and buy, say, 500 sacks of flour forward, arket goes against such an individual, he, of course, throws up his contract, under the excuse that the flour is below quality. The fact is, it is not that he will not take the flour, but that he cannot without beingruined. Every miller's salesman should be instructed to book only reasonable quantities of flour to ordinary customers, and if millers would but do this
—if they would check the risks
incurred by their subordinates and be content with fair profits, we should hear much less about bakers repudiating their contracts."

#### RANDOM THOUGHTS.

BY WANDERER.

HOW much will machinery depreciate in value, year by year? This is a question in which not alone the user is interested, but also the manufacturer and insurance companies.

In view of the fact that there are so many mills, with a great variety of equipments—some containing the very latest maand manufactured chinery others using machines many of which are quite ancient-and yet producing very nearly the same kind of results, it would appear that in case of fire, the loss on one should be considered fully as great as that on another. It, of course, requires very shrewd management on the part of those in possession of a lot of old time machinery, to hold their own against their neighbors who have invested in everything that is new and novel, and the miller, by the way, who has an old outfit of millers' art, that he entrusted ber of the Accrington Board of clusion of all others, but adopt him with the responsible post of manager of his Accrington settlement in Blackburn he be- Above all he is a thorough man worthy of his position. He has

the utmost and may feel proud of his exertions. An old machine in place, doing good work, may be worth a fortune to a mill owner, but if taken out of the mill and placed on sale, may not find a purchaser who would take it at any price. In fact a second hand machine of any kind will hardly find a market anywhere in these days.

The value of a mill should be gauged according to its actual capacity, whether it be an old mill or one recently built. The chances are that the machinery in an old mill was bought while prices were very much higher than they are now. However, whether old or new the first cost should have nothing to do with the present valuation of a plant. New machinery is sometimes depreciated in value far below that of old machinery on account of being abused, or by being located in a mill in which the results are anything but satisfactory. A chain has the strength of its weakest link, likewise is it possible that the value of a flouring mill be largely governed by machines which produce the most inferior work.

There is one thing which is worthy of consideration from an insurance standpoint and that is how nearly the mill is arranged in accordance with the laws of fire risks. Ninetynine mills in a hundred usually burn without the actual cause of the fire becoming known. It is usually attributed to one thing or another. A fire may be produced by a machine or portion of a mill which in itself may not be a fire trap. It, however, may ignite something else which may be the actual cause of the total destruction. There are more mill fires extinguished with buckets than otherwise. It may be taken for granted, therefore, that it is only in case where a fire has been arrested, immediately after having started that the true cause has become known. It, therefore becomes a matter worthy of consideration how nearly a mill is constructed according to the fire risk as held in view by insurance companies.

One thing that may be in favor of new machines is that all bearings are in plain sight, and where they can be approached and attended to with 74, against 85.3 in 1892. ease. However, it must be a very ancient machine that has any of its bearings under cover. There are clusters of power connections that may be greater risks than any one machine. A mill that is so cluttered up with machinery, making it difficult to get through many places, is anything but a desirable insurance risk.

the wear and tear by constant and Texas, 68. use, cuts more of a figure than any other one thing, providing the operative miller does not defective parts as they appear. Five and ten per cent have been named as the figures to substract from the valuation year by year. While this may appear to be an exceedingly appear to be an exceedingly is small and of an inferior qual-large amount in some cases, in others it is small indeed. It is and under, and in some places another case where the innocent are obliged to suffer with the guilty.

The manufacturer's interest in the depreciation in value of machinery is also quite considerable. If it were not that mill-builders are continually "hatching out" new wrinkles with which to improve the manufacture of flour a great many of them would cease to exist. Certainly not near all of them could remain in the field by depending on the new mills that are being built every year. In many cases, of course, the inventors of machines are millers, but it is but a comparitively short time until the millbuilders have taken hold of the new machine or device, providing it is a success, to push it for all it is worth.

#### SEPTEMBER CROP REPORT.

The September report of the Statistician of the Department of Agriculture shows a decline in the condition of corn to 76.7 from 87 in August and 93.2 in July, being a decline of a little more than ten points from the August and more than from the July report. The change is marked in nearly all corn States. The August and more than sixteen present condition is 75 in Kentucky, 64 in Ohio, 65 in Michigan, 59 in Indiana, 64 in Illinois, 96 in Iowa, 92 in Missouri, 74 in Kansas and 71 in Nebraska. In comparison with the September reports of the last ten years only three were lower, 70.1 in 1890, 72.3 in 1887, and 76.6 in 1886. In the same month in 1892 the condition was 79.6, or nearly three points higher than the present month. There has been general de-cline in the condition throughout the country which has been caused by the widely prevailing drought.

The condition of wheat, considering both winter and spring varieties, when harvested was general average is lowest since 1885, when it was 72. The reported conditions for the principal wheat growing States are as follows: Ohio, 98; Michigan, 80; Indiana, 88; Illinois, 60; Wisconsin, 80; Minnesota, 65; Iowa, 85; Missouri, 64; Kansas, 42; Nebraska, 55; South Dakota, 66;

certainly taxed his brains to tion of machinery is concerned, 93; Maryland, 98; Virginia, 96,

In New England, Eastern and most of the Southern States the crop was harvested in good follow up carefully the various condition and the yield averaged well. The same can be said of Ohio. In Indiana the quality is good, but the crop light, while in Illinois, Missouri, Kansas and Nebraska the yield reported worthless. In the Da-kotas the yield is light, while the quality is generally good. In Iowa and Wisconsin the winter variety yielded well and was of good quality, while the spring variety yield was poor and of an inferior quality. In Minnesota the yield has been poor and not up to expectations; the quality generally good, with some complaint of shrivelled grain. In California and Oregon the quality of the grain is good up to an average, and the yield has been good, except on lowlands, where it was greatly damaged.

There has been a further decline in the condition of oats during the past month, the general average standing at 74.9, against 78.3 in August. In September, 1892, it was 78.9.

The condition of rye is 82. Drought during the spring and early summer injured

Barley shows a slight falling off since last month, the general average being 83.8, against 84.6 in August.

#### EXPORT OF BREADSTUFFS FOR AUGUST.

The following, from the statement of the U.S. Bureau of Statistics, shows the amount and value of domestic breadstuffs exported from all American ports during the month of August, 1893, as compared with that for same month, 1892:

|  | 189   | 03.  | 1892.  |   |  |  |  |  |  |
|--|---|--|--|---|--|--|--|--|--|
|  | Bush.   | Value.   | Bush.  | Value.  |  |  |  |  |  |
| Barley.<br>Corn<br>Oats<br>Rye<br>Wheat. | 1,236,144<br>6,486,510<br>515,237<br>78,028<br>13,669,293 | 554,363<br>3,289,891<br>169,739<br>44,512<br>9,589,218 | 270,591<br>2,352,664<br>159,090<br>148,649<br>13,243,830 | 138,308<br>1,346,940<br>66,391<br>111,323<br>11,142,038 |  |  |  |  |  |
| Total.                                   | 21,958,212  | 13,647,723   | 16,174,824   | 12,805,000  |  |  |  |  |  |

In addition to above, the following were exported during the month of August, 1893: Corn meal, 24,541 bbls., value \$66,163; Oat meal, 679,581 lbs., value \$16,824; Wheat flour, 1,845,306 bbls., value \$8,124,518. For the eight months ending August 31, 1893 and 1892 the total valuation of breadstuffs exported was \$124,496,019 and \$166,239,917,

respectively.

#### WORLD'S PRODUCTION OF WHEAT

Hungarian Minister of Agriculture has appeared. Its esti-

for the last ten years. The report gives also the following figures: The deficits to be filled by importing countries will require 379,000,000 bushels. The surplus available in exporting countries to satisfy this demand is 378,664,000 bushels. The world's product of rye is given at 485,000,000 hectolitres.

The production of wheat and the deficit (amount needed above the domestic supply) in each importing country is given

|                   | Production   |             |  |
|-------------------|--------------|-------------|--|
| Country.          | in bushels.  | Deficit.    |  |
| Great Britain     | . 56,750,000 | 184,427,000 |  |
| France            | .283,764,000 | 46,818,000  |  |
| Germany           | 90,795,000   | 25,537,000  |  |
| Italy             | 122 012 000  | 22,700,000  |  |
| Netherlands       | . 6,384,000  | 8,512,000   |  |
| Switzerland       | 4,539,000    | 12,768,000  |  |
| Belgium           | . 15,605,000 | 24.118.000  |  |
| Denmark           | . 4,256,000  | 3,688,000   |  |
| Norway and Sweden | 4,823,000    | 2,270,000   |  |
| Spain             | . 76,612,000 | 8,512,000   |  |
| Portugal          | . 5,675,000  | 5,675,000   |  |
| Greece            | . 4,255,000  | 7,377,000   |  |
| Austria           |              | 39,725,000  |  |

The production and surplus in each exporting country are given thus

|               | Production  |            |
|---------------|-------------|------------|
| _Country.     | in bushels. | Surplus.   |
| Russia        | 342,965,000 | 97,893,000 |
| Hungary       |             | 45,400,000 |
| Roumania      | 46,818,000  | 34,050,000 |
| Turkey        | 28,375,000  | 5,675,000  |
| Bulgaria      | 31,977,000  | 10,782,000 |
| Servia        | 8,512,000   | 3,405,000  |
| United States | 397,250,000 | 69,518,000 |
| Canada        | 43,890,000  | 9,931,000  |
| India         | 274,835,000 | 42,562,000 |
| Rest of Asia  | 65,262,000  | 7,093,000  |
| Africa        | 36,716,000  | 3,688,000  |
| Australia     | 39,725,000  | 19,295,000 |
| Argentina     | 56,750,000  | 26,105,000 |
| Chili, etc    | 19,862,000  | 6,526,000  |
|               |             |            |

Department of Agriculture savs also that as much maize, oats and barley will be needed to take the place of fodder de-stroyed by the drought, the consumption of wheat and rye is likely to be unusually large. High prices, therefore, are likely to rule when the American shipments to Europe cease.

The Hungarian crop report

is not always correct in details. The report to be issued in Vienna is regarded as more trustworthy.

The crop report of the Austrian Government, given out March 28, estimates the yield of wheat in Austria as 14,000,000 meter-centner, or, taking 100 as the average, as 88.8 per cent. The yield of wheat in North America is estimated at 382,-000,000 bushels: the yield of rye as 24,333,000 bushels, and the yield of maize as 1,809,000,-000 bushels.

#### PAINT FROM POTATOES.

Paint from Potatoes is a new wrinkle in the arts of sciences. Kuhlow's Trade Review gives the manner of preparation: Boil a kilo (2½ pounds) of peeled potatoes in water; after mashing, dilute with water and pass through a fine sieve. Add two kilos of Spanish white diluted with four kilos of water and the result will be a color The annual report of the of beautiful milk white. Different colors can be affected by the addition of different ochres cult to get through many laces, is anything but a derable insurance risk.

So far as the actual deprecia
Nebraska, 55; South Dakota, 66; mate of the world's production of wheatthis year is 2,279,000,000 and were general and wood were general with the statement of the world's production of wheatthis year is 2,279,000,000 and were general were general world in the world's production of wheatthis year is 2,279,000,000 and were general were general world in the world's production of wheatthis year is 2,279,000,000 and were general world in the world's production of wheatthis year is 2,279,000,000 and were general world in the world's production of wheatthis year is 2,279,000,000 and were general world in the world's production of wheatthis year is 2,279,000,000 and were general world in the world in th

#### ORGANIZATION OF MILLERS IN THE UNITED STATES. German home crop is greater

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#### A NEW COMMERCIAL OPPOR-TUNITY.

THE following from the September, 1893, Consular Reports is from Consul-General Frank H. Mason, Frankfort, Germany, under date of August 2, 1893: Readers of European politics are generally aware that during the past two months a serious disagreement has occurred between the governments of Russia and Germany in respect to a commercial treaty between the two countries, and that as a result negotiations were broken off, and Russia decreed against Germany a retaliatory tariff in which all existing import duties should be advanced 50 per cent. Germany promptly retorted by declaring a similar increase of 50 per cent in the duties on all imports from Russia. These two measures, which took effect simultaneously, August 1, have practically suspended commerce between the two countries in several important classes of merchandise.

Under the best possible circumstances, and even with good will on both sides, the German embargo against Russia cannot be modified by the adoption of a new treaty until the meeting of the Parliament at Berlin in November, by which time most of the rivers and canals of Russia will be closed to navigation, leaving the transportation of freight exclusively to the railways, whose rates for long distances, especially in Russia, are practically pro-hibitory for grain and coarse products of all kinds. The Russo-German commerce for the coming autumn and winter must therefore practically cease or struggle along under a 50 per cent increase in the already high import duties ex-

ican producers and exporters will do well to examine some-what critically the nature and extent of the opportunity which is thus suddenly opened to products from the United States.

The first requisite to such an examination is a synopsis of the quantity and character of the merchandise which has hitherto been exchanged between Germany and Russia. Not all the statistics of last year's commerce are yet available, but it is known that in 1892 Russia sold to Germany rye valued at \$21,420,000, besides 300,000 barrels of refined petroleum and 78,000 barrels of petroleum products, mainly lubricating oils, which are largely used by the German State railways. In other respects the Russo-German trade of 1892 did not differ essentially from that of 1891.

The pertinent question in this connection is how much of the vast total the United States will be able to furnish at prices within the artificial limit now established by the retaliatory tariffs, which, so far as they go, are enactments by both Germany and Russia in favor of all other producing countries, and notably United States.

As to petroleum and petroleum products, it may be assumed that nearly the entire supply which Germany has hitherto derived from Russia will be imported, so long as the present status continues, from the United States. Already a large order for lubricating oils has been placed with the agent of an American firm by the purchasing agent of the Prussian State railways, which have hitherto purchased their tured not over two-thirds of a entire supply in Russia. In crop and possibly the yield 1892, which was agriculturally a fair average year in Germany, this country imported from Pastures are gone, and dairyacted by both countries upon even such articles as food and other necessities of life. Amer-This year the deficit in the up the flow of milk.

than in 1892, and the demand will be proportionately increased. Rye is a cereal which it is always difficult for German importers to find in large quantities elsewhere than in Russia, so that it may be safely assumed that every bushel of rye that the United States can spare, from now until next July, will find a ready market in Germany. (Note by the Department.—The United States exported to Germany during the last fiscal year 3,965,191 bushels of rye, 13,901,-239 bushels of corn, and 7,635,-926 bushels of wheat.)

How seriously the present advance of the grain tariffs will affect Russian exports to Germany will be evident when it is considered that the ordinary German import duty on rye and wheat is 5 marks per 100 kilograms, equal to 32 cents per bushel. Add to this the present retaliatory increase of 50 per cent, and we have a duty of 48 cents per bushel, or a difference of 16 cents per bushel in favor of the United States, India, and such other nations as have a surplus of rye and wheat to sell.

It will be noticed that the imports from Germany into Russia have been, hitherto, largely manufactured goods, whereas German imports into Russia have been principally of the nature of raw materials. The import duties on most of them are already so high, in both countries, that a 50 per cent increase will be practically prohibitory, provided the sup-plies which each has hitherto imported from the other can be reasonably obtained elsewhere. Here, then, is a new and timely opportunity which American producers and exporters will assuredly not fail to study and improve.

#### WEATHER CROP BULLETIN OF THE WISCONSIN WEATHER SERVICE.

[For week ending Tuesday, Sept. 12th, 1893]

U. S. DEP'T OF AGRICULTURE, WEATHER BUREAU, Bulletin No. 22.

Drought continues, with no immediate prospect of abatement. In some places corn has dried up, in others it is a good crop. Cutting is vigorously prosecuted and it will nearly all be in the shock by the end of this week. On the whole the crop will be below the average.

Potatoes have suffered more than any other crop as a result of the drought, and the crop which, on July 1st, showed such wonderful promise, has mawhen measured up may not exceed one-half.

But little plowing and seeding of winter wheat has been done, and that which has been sown has not enough moisture to germinate and grow.

Fires have done much damage, especially to cranberry marshes in the vicinity of Meadow Valley and Bearss Marsh, four of the most valuable marshes at the latter place being burned over.

While the loss by frost to the cranberry crop was great, picking shows that the first reports of damage were a little excessive, and that one-half of a crop will be gathered-probably twothirds.

Tobacco is being harvested as fast as it ripens and there are some good pieces. The late fields will depend on the weather, but it is not probable that an average yield will be secured. But, considering the unfavorable weather during much of the growing season, the crop is better than would naturally be expected.

The average rainfall for the past week is about .68 of an inch. Not even a shower is reported from any part of the State. This is the first week this season that none of our numerous correspondents have reported rains.

WILLIS L. MOORE, Local Forecast Official, Weather Bureau Director.

#### SUIT OVER A TRADE MARK.

Papers in a suit by the Pillsbury-Washburn Flour Mills Co. of Minneapolis, have been filed in the Circuit Court at Mankato, Minn., against the Marshall Milling Co. of Mar-shall, Minn. The complaint alleges that the Pillsbury-Washburn Company and its predecessors, the firm of Charies A. Pillsbury & Co., have used a certain trade mark, constituting the brand well known as "Pillsbury's Best," for flour for the past twentyfive years. The trade mark consists of the word "Best" of a peculiar form of lettering, which was designed and invented for C. A. Pillsbury & Co., and has been used by them exclusively for many years. It is claimed that they have had undisputed possession of the trade mark until very recently; that the Marshall Milling Company has appropriated the trade mark and is using it on flour of its manufacture. The bill asks for an injunction to restrain the use of this trade mark by the Marshall Company, for an account of profits made and for damages. The bill also states that the Pillsbury-Washburn Companyholds this trade mark at a valuation of \$1,000,000.

SEND for a copy of Cawker's American Flour Mill and Grain Directory for 1892-3. Address, THE UNITED STATES MILLER, 68C Mitchell Bldg., Milwaukee, Wis.

#### THE WORLD'S WHEAT CROP, 1892-93.

**SEPTEMBER 15TH, 1893.** 

Dictated by G. J. S. B.

The Editor of the United States Miller, Milwaukee, Wis., U. S. A.

DEAR SIR:-The trade is suffi-ciently depressed without being further demoralized by the publica-tion and world wide distribution of such a report as that lately issued by the Hungarian Minister of Agriculture. I have been requested by some of the leading merchants here to point out some of the inconsistencies and inaccuracies contained in the report. I shall feel much obliged if you can find room for enclosed, or a summary of same in your valued columns.

Believe me, dear sir,
Faithfully yours,
GEO. J. S. BROOMHALL.

The following letter has been addressed by the Secretary of the Liverpool "Corn Trade News," to the Editor of the London "Statist," one of the leading British financial papers:

DEAR SIR:-Your last issue con-DEAR SIR:—Your last issue contained an account of the World's Wheat Crop as estimated by the Hungarian Minister of Agriculture lately published in Vienna, your criticism of the various items was on the whole just and evinced a tolerably close acquaintance with the statistics of the trade with which I am semi-officially interested so far as the Liverpool Corn Trade Association is concerned.

The extraordinary estimate of the Russian crop of 1893 did not escape your notice, and you very naturally questioned the accuracy of the implied surplus, seeing that a crop of 123,000,000 bushels larger than that lied surplus, seeing that a crop of

of last year is only deemed capable of furnishing 27,000,000 bushels more for the export trade.

The Russian crop of last year according to the final official return, issued last February, was 256,000,000 bushels, not 219,000,000 bushels the Hungarian Minister having the state. els, the Hungarian Minister having given, in palpable error, the figures for the crop of 1890 as everyone can easily see on referring to the return published in the Russian official journal. This is only one instance avenualitying the caralesanes with published in the Russian official of journal. This is only one instance exemplifying the carelessness with which the Hungarian Minister compiled his estimate. With regard to his excessive estimate of this years crop, viz., 342,000,000 bushels, it is only necessary to refer to the last Russian official report, bearing in mind the official estimates of previous years to see how wild a guess the Hungarian Minister has made. The latest official report upon the Russian crop was as follows: Winter Wheat, about average. Spring Wheat nearly everywhere good, in some districts even in excellent condition.

The wheat crops raised in Russia and Poland of recent years have been as follows:

| been as f | ollows | :                            |
|-----------|--------|------------------------------|
|           |        | Final Official Returns.      |
| Harvested | Angust | 1892 Bushels.<br>256,000,000 |
| 11        | in the | 1891                         |
| 44        | 44     | 1890219,000,000              |
| **        | **     | 1889200,000,000              |
| 44        | 44     | 1888                         |
| 4.        | 44     | 1887 280,000,000             |
| 44        | 44     | 1886                         |
| **        | **     | 1885184,000,000              |
|           |        |                              |

It will be seen that an average crop of 225,000,009 bushels is the general rule, and there is no warrant for looking for one far above this figure this year, certainly if 250,000,000 or 270,000,000 bushels were allowed it would be a fair deduc-tion from the latest data before the

Average 8 years.

trade.
The account of the deficits of the importing countries are also very wide of the mark, as your readers may see from the following parallel columns, where the actual official imports for 1892 are given in comparison: Hungarian Min-ister's acc, of the deficiencies of the cereal year cereal year cereal year

| 1               | 892-8       | 1892-3      |
|-----------------|-------------|-------------|
|                 | Bu.         | Bu.         |
| U. S            | 161.737.000 | 178,400,000 |
| France          | 42,000,000  | 32,000,000  |
| Germany         | 15,606,000  | 34,000,000  |
| Italy           | 29,794,000  | 38,000,000  |
| Holland         | 11,350,000  | 13,040,000  |
| Switzerland     | 13.768,000  | 14,400,000  |
| Belgium         | 14,188,000  | 26.560,000  |
| Denmark         | 1,986,000   | 3,840,000   |
| Norway & Sweden | 2,270,000   | 3,880,000   |
| Spain           | 2,837,000   | 13,840,600  |
| Portugal        | 4,256,000   | 5,600,000   |
| Greece          | 10,215,000  | 4,000,000   |
| Austria         | 25,537,000  | 35,537,000  |
|                 | 001 511 000 | 000 000 000 |

Total 334,544,000 398,657,000

I will not trespass further on your space to expose the obvious error in reckoning the great Argentine wheat Crop of 1893 as on a level with 1892, nor many other equally surprising errors. The Hungarian estimates are not only worthless, but mischievous, and you will much oblige if you can find space in your valued columns for these remarks. for these remarks.

for these remarks.

I enclose a report upon the Russian crop dated 5th inst. specially furnished by a Russian official.

Believe me, Dear Sir,

Faithfully yours,

(Signed) GEORGE J. S. BROOMHALL.

#### RUSSIAN CROP REPORT.

Special to Corn Trade News from a Russian official.

It is impossible at present to give even an approximate estimate of this year's Wheat corp in Russia. Up to time of writing nothing defi-nitely reliable is known. In some provinces the yield is abundant, provinces the yield is abundant, grain sound, and of a high quality other provinces quantity above average, but quality poor and of light weight; others again, straw very plentiful, but comparatively little grain; in others again, the yield on field was a fair quantity, but quality considerably ty, but quality considerably suffered from wet weather and the grain having been lost on the ground. The results of the threshing, so far, have only been received from a few of the centres.

To estimate approximately this year is, moreover, doubly diffi-cult, as the area sown of Winter Wheat having considerably suf-fered, has been resown with Spring crops, and so far no reliable infor-mation has been received as to the mation has been received as to the area thus resown; therefore it is not advisable to make any estimate even from previous years. The department of Agriculture made a trial to estimate the Rye crop, but found such great difficulties in the way that it acknowledged the figures as totaly unreliable. From information received from the re information received from the va-rious interior provinces the harvest will not be so abundant as was gen erally calculated. The general impression among growers seems to e "the harvest will be what is called heavy straw and little grain."

#### A BRITISH VIEW OF THE CROP SITUATION.

It may be somewhat selfish to put the matter in such a light, but there is certainly a grain of comfort to the British miller to be found in the circumstance that America this year has, according to the recent crop estimates of Bureau, produced very little more wheat than they will require at home, viz., less than 400 million bushels. course means that, unless the

it is that there are large stocks of old wheat on hand, probably 75 million bushels; but that is a very moderate total compared with the actual exports of the past two seasons, viz., 192 million bushels in the past season, and 225 million bushels in 1891-92. During the past season ended June 30, no less than 16,620,000 barrels of flour, representing nearly 75 million bushels of wheat were exported, of which 10,361,860 barrels came to the U.K., and 1,549,000 barrels to other European countries. To keep up this rate, nearly every bushel of wheat available for export to Europe in the present season of 1893-94 will have to be sent in the shape of flour, a thing manifestly impossible. The British miller may, therefore, pluck up courage—if he has ever lost it—for it is as certain as such matters can be, that the competition of American flour will be less severe in the coming season than in either of the two previous ones. At present, it is true, there are no signs of any falling off, for since August 1, no less than 200,000 sacks per week have been sent to Europe. A somewhat pertinent comment upon the past year's export business of some American millers, is to be found in the fact that the £10 shares of a well-known large American joint stock mill are to-day not worth more than £2 to £3.—Millers' Gazette, London.

### ARGENTINA AS A SOURCE OF WHEAT SUPPLY.

The agricultural condition of the Argentine Republic is the subject of a recent English consular report. Mr. W. S. H. Gastrell, the writer, refers to the rapid development of Argentina from an almost purely pastoral to a cereal-producing country, pointing out that, while in 1880 the Republic imported 177,000 tons of wheat, it has this year a surplus available for export of 1,040,000 tons. He remarks further that, geographically considered, the country is remarkably well adapted for the cultivation of cereals. Its vast cultivable areas and the extensive facilities for transport provided by its railway system, render its potentialities as one of the sources of the food supply of Europe a subject of considerable interest. For the present year the total area under cultivation is estimated at 12,500,000 the Washington Agricultural acres, and the possibilities of extension may be judged from the statement that the area said to be suited to cultivation it has been made to approxi-This of in the whole country is about cless the 240,000,000 acres. As the dis-American authorities are seri- tance to ports of shipment from ously in error, American millers the tracts at present under will not be in a position to flood wheat crops is usually short, it us with their flour, for the can be produced and shipped simple reason that the wheat at an exceptionally low cost,

Gastrell says, upon whether the colonist and his family perform the work themselves or have to pay for hired labor. A calculation is made, based upon the average yield of one ton from two and one-half acres, that, allowing for all expenses of transport, etc., the wheat, if sold in Europe at about 22s per quarter, would return a net profit of about 4s 6d per quarter. The price mentioned is considerably below the lowest yet reached in England, and as the quantity available for export is already sufficient to make it an appreciable factor in calculating the total food supply, the progress of this comparatively new competitor in the world's markets will be watched with increasing attention.

#### SOME NATIONAL DEBTS.

The public debt of the United States is very small compared with those of some other leading nations, being less than \$1,000,000,000, while that of Great Britain is about \$3,250,000,000 and that of France \$6,500,000,000, exclusive of the debts of the departments, amounting to \$750,000,-000, which are guaranteed by the central government. Our little neighbor to the north, Canada, owes \$250,000,000 which is a burden nearly as heavy per capita as that of the mother country. Our own public debt has been very rapidly reduced since the close of the civil war, being about \$2,770, 000,000 in 1867, or nearly three times as large as at present. Its reduction is steady, and the national credit is now sustained beyond all precedent.

The debt of Great Britain, which was greatest at the close of the Napoleonic wars, then amounting to \$4,000,000,000, is now \$3,250,000,000. The present annual reduction is \$30,000,000, at which rate the debt will be extinguished in less than one

hundred years. The French, however, bear the heaviest burden of civilized nations, as its enormous debt shows a total twice as large as that of England, with a per capita of \$170 against \$80 in England and \$15 in this country. Its debt however is due to its own people, and constitutes a national savings bank wherein their earnings are deposited for security and as a source of income. There are source of income. There are few opportunities for profitable investments in private or pub-lic enterprises in France; and the national debt is, therefore, a national blessing, or rather mate that relation to the thrifty industrious population as far as possible under the circumstances.—N. O. Democrat.

us with their flour, for the simple reason that the wheat at an exceptionally low cost, will not be forthcoming. True this depending very much, Mr. SEND for a copy of Cawker's American Flour Mill and Grain Elevator Directory for 1892-98.

#### SEPARATIONS.

[Paper read by Mr. James Newby at the sixteenth annual convention of the Penn-sylvania Millers' State Association, held Sept. 12 and 13.]

In looking over the past history of milling methods, from 1850, when the millstone was used, with its one reduction, hopper-boy, shoe-feed, knockers and reels forty inches in diameter with different grades of cloth, making all the separations on the same reel, and following up the stages to the present time, I see that our advancement is, indeed, wonderful. A miller must be continually on the alert to keep up with the march of progress, or he will awake some fine morning to find his neighbor ahead, and his tradegrees our convenient. trade gone. Our countrymen are growing more refined in their tastes and are always looking for the best goods on the market. To hold trade we must make flour

goods on the market.

To hold trade we must make flour uniform in quality; the mill must be kept in perfect order, the rolls, reels and cloths nicely adjusted and frequently looked after, while special attention should be paid to the grain-cleaning department, so often neglected. To produce good flour it is of the utmost importance that we have sound, well-cleaned grain of the proper mixture to give the desired results. Upon receiving a load of wheat, note the locality in which it was raised, and the quality, soft or hard. Weigh, and send it to a good machine for separating light materials, then to the weighing hopper and a second cleaner for final purifying before conveying it to the proper bin. The conveying it to the proper bin. The storage system should be so ar-ranged that each grade may be separate, to be drawn from accordseparate, to be drawn from according to the mixture needed in the quality of flour to be made. Having selected such a mixture as is required, run it to the magnetic separator, then to the milling separator, scourer, brush and rolling screen with fan attachment.

We have now arrived at our first reduction. This should be carefully made, as the systems used will control the reductions in the mill. They are three in number, the short, medium and long, all claimed to produce good results. Mine will be for a five to six-break Mine will be for a five to six-break on grain, with ten or more on the remainder of the stock. If you have a five-break mill start with from ten to twelve corrugations per inch, and break down quite hard, so that you may produce ten or twelve drachms of flour and middlings per ounce of break stock. To obtain the best results from breaks and to ounce of break stock. To obtain the best results from breaks, and to equalize the amount of work done by them, I have found it advisable to use a small scale for testing the breaks. It requires a little time to weigh and separate, but it pays. I have, also, a scale for weighing the flour and water used in doughing. After a few trials one can detect very quickly whether the mill is working softer than usual, the wheat changed in quality, or the millers grinding closer than they should.

The short system requires simpler bolting methods than the simpler bolting methods than the medium or long. This is not because it is short, but because the reduction made is. All the material is soft, and the middlings finer and less. Less scalping is required as the grades of stock are less. Gradual reduction means a longer system; the flour made is incidental. The short system disregards the making of middlings, to a great extent, and presupposes more flour. On the first reduction there are two short systems, one retaining the middlings idea, the other rejecting it. The gradual reduction method refrains from making flour until it reaches the fourth, a great extent, and presupposes the flour by the shortest route posmore flour. On the first reduction sible. I prefer a finely-corrugated roll for this work, as it gives more retaining the middlings idea, the other rejecting it. The gradual reduction, and leaves of granular stock for further purification and reduction. Moreover, I make the separations such fifth and sixth reductions, making as to enable me to use about the same numbers of cloth for all of my flours.

make its best flour after it has started on the middlings.

The difference between the systems is: That in the gradual we The difference between the systems is: That in the gradual we are not in as great haste to reduce our middlings as in the short. The long produces as large an amount of middlings as possible, the short more flour; the latter, of course, requires fewer separations. The material, also, differs in character; the middlings are fewer and finer. Sizings are but little known, as, in reduction by the short method, they are, practically, done by the breaks. The long system retains the middlings idea and continues purifications and separations. By this plan we have larger germ middlings care should be exercised in having a good separation of the product. The head of this reduction can go to the patent. If it be desirable, the next cut-off may be sent to the reel for dusting, so that the finer middlings may go the purifier, the cutoff near the tail to the A sizing rolls and the next to the second, the tail going to a duster.

We must have a correct and uniform feed. If it is not, an uneven

We must have a correct and uniform feed. If it is not, an uneven stock is produced, and low grades are multiplied. Our first rolls were crude in this respect. The most perfect feeding device for breaks is a vibratory apparatus, the stock passing over tables and spreading itself in uniform sheets. It needs very little attention and gives a nicer granulation, with more perfect separations. This is most important, though three-fourths of the millers do not appreciate the

fact.
Milling is still in a state of evolu-Milling is still in a state of evolution. The systems in use at present will be superceded, I feel assured; rolls will still be used, but great strides will be taken in the handling of the stocks and their purification. As we are getting more perfect dust collectors I think we may soon begin to elevate our more perfect dust collectors I think we may soon begin to elevate our stocks with air. I used this method in 1866 with success, in cooling the flour and giving it a better color. Our millers are far ahead of the Europeans, being quicker to see an improvement and to take advantage of it. The period of secrees in improvement and to take advantage of it. The period of secrecy in milling is past. The system now in use, of reductions and separations, has been brought to the front and investigated. Practice has given us a good system, though it still leaves much to be desired. In all our reductions and separations we should avoid sending the stock too far in in elevators and stock too far in in elevators and conveyors, as this wears off par-ticles and produces a soft, pasty

I do not purpose to say which sys-tem is preferable. To work any correctly one must understand all of its points, and the mill. It would be folly for a miller to reduce his stock in a long system mill upon the same lines as in a two or three-break system. Of course, the use of the former admits of greater skill in the manipulation of separa-tions, while the latter grinds the stock to death as fast as possible.

It is a very easy thing to spoil the good working of a mill by an the good working of a mill by an improper adjustment of the rolls, or by neglecting purifiers and separators. Millers sometimes allow good middlings to get to the end of the mill by not grinding properly, or by not watching all the separations. I would suggest that all millers, when they have nice, clean middlings, should get them into the flour by the shortest route possible. I prefer a finely-corrugated

It will be impossible for me to fix It will be impossible for me to fix a definite system of bolting and scalping with the necessary separations, as long as we have so many different modes of milling. Whatever system you use, look well to your corrugating; keep the rolls in perfect trim, having the journals fit closely in long bearings, with large pulleys, wide belts and good differentials. Have the rolls dressed often, and, with an attentive miller, you cannot go far tive miller, you cannot go far astray. Never allow him to run the astray. Never allow him to run the rolls so as to flake the stock; always grind so that you can feel its granular condition, which should be lively. Bolt and separate freely, as by this means we obtain a better body to the flour. This holds good throughout the mill. If you are running on the middlings idea. I throughout the mill. If you are running on the middlings idea, I would use the saw-tooth corruga tion back to back on the first reduc tion; on the second, the saw tooth running sharp to sharp; on the third, a compromise, the saw tooth on one roll, and a corrugation between a round and a sharp on the other. This reduction is as far as I draw good middlings for the first The remainder of the reductions are made by saw tooth rolls running back to back. The rolls should have a good motion, with a differential of two and a half, or three, to one. After the separations are made, before blending the grades, I would recommend that the flour be run through air currents to cool and bleach it. The the flour be run through air currents to cool and bleach it. The successful miller is a man of broad views and advanced thought. He does not cling to old ideas of separations, neither does he adopt all the new wrinkles. He looks about him, reads, investigates and compares. As I have said, we are in a progressive age and the profitch la progressive age, and the profitable way is to keep up with the proces-

#### RECEIPTS OF WHEAT.

The following table shows the receipts of wheat at the winter wheat markets for 12 weeks, from June 26 to Sept. 16, 1893, with comparisons with two previous years, in bushels, as compiled by The Cincinnati Price Current:

|                  | 1893.      | 1892.      | 1891.      |
|------------------|------------|------------|------------|
| St. Louis        | 6.235,000  | 12,057,000 | 11,585,000 |
| Toledo           | 5,813,000  | 13,802,000 | 12,968,000 |
| Detroit          | 3,2 0,000  | 3.084,000  | 3,446,000  |
| Kansas City      | 4,018,000  |            | 4,299,000  |
| Cincinnati       | 444,000    | 951,000    | 1,428,000  |
| Winter Wheat.    | 19,740,000 | 40,090,000 | 33,726,000 |
| Chicago          | 5,423,000  | 17,792,000 | 20,221,000 |
| Milwaukee        | 2.247,000  | 4,208,000  | 1,835,000  |
| Minneapolis      |            | 11,795,000 |            |
| Duluth           | 7,053,000  | 5,763,000  | 5,725,000  |
| Spring Wheat     | 22,976,000 | 39,558,000 | 36,808,000 |
| Winter Wheat     |            | 40,090.000 |            |
| Total 12 weeks   | 42,716,000 | 79,648,000 | 70,534,000 |
| Winter, past w'k | 2,241,000  |            |            |
| Spring, past w'k |            |            |            |
| Total, week      | 6,306,000  | 8.679,000  | 9,584,000  |
| Previous week.   | 4.811.000  | 8,326,000  | 7,954,000  |

#### MINNEADOLIS

| 1890. |  | ļ, |   |  |  |  |   |  |   |  |   |    |    |    |  |   |  |  |  |  | 43,488,330 |
|-------|--|----|---|--|--|--|---|--|---|--|---|----|----|----|--|---|--|--|--|--|------------|
| 1891. |  |    |   |  |  |  |   |  | * |  |   |    |    | Ġ. |  | · |  |  |  |  | 51,703,955 |
| 1892. |  |    |   |  |  |  |   |  |   |  |   |    | Ĭ, |    |  |   |  |  |  |  | 72,023,160 |
| 1893. |  |    | , |  |  |  | , |  |   |  | i | ١, |    |    |  |   |  |  |  |  | 64,952,550 |

These figures represent the number of bushels of wheat received in Minneapolis for each of the four crop years, 1890, 1891, 1892 and 1893, says the Tribune of August 31.

The year closes with Aug. 31. The figures for this year are actual up to and including the 29th. The last two days of the month are estimated, but the actual figures can vary but little, at the best, from the estimates. For all practical purposes they are as complete as they will be two days hence.

The receipts of wheat were in round numbers 7,000,000 bushels less than in 1892, which was a phenomenal year, but are very largely in excess of those of any other year in the city's history. The flour shipments were within a few thousand barrels of those of the preceding year.

The receipts of wheat and flour for the year ending Aug. 31, 1893, with two days estimated, are:

WHEAT.

|                          | Receipts,   | Shipments, |
|--------------------------|-------------|------------|
|                          | bu.         | bu.        |
| September                | 5,765,980   |            |
| October                  | 10,569,580  | 1,254,660  |
| November                 | 9.681.390   |            |
| December                 | . 8,068,030 |            |
| January                  | 4.259.470   |            |
| February                 | 3,736,660   | 739,330    |
| March                    | 4.749,930   |            |
| April                    | 4,820,840   |            |
| May                      | 4,088,670   |            |
| June                     | 4,210,060   |            |
| July                     | 3,140,670   |            |
| August (including 29     | 1.699.970   |            |
| Aug. 30 and 31, (est.)   | 161,000     |            |
| ring. oo and or, (est.). | 101,000     | 21,000     |
| m                        |             |            |

Tota1......64,952,550 17,603,100

| FLOU  | R.   |   |
|---|--|---|
| Reptember October October November Oecember anuary 'ebruary March April May une | R. eccipts, Bbls. 10,936 23,158 28,073 38,941 29,674 36,297 35,759 35,335 17,437 8,866 | Shipm'ts,<br>Bbls.<br>844,304<br>940,436<br>832,086<br>619,872<br>657,411<br>741,477<br>673,282<br>685,910<br>740,861 |
| August (including 29).<br>Aug. 30 and 31 (est.)                                 | 7,620<br>6,144<br>500  | 696,236<br>773.121<br>61,000  |
| Total   | .278,740   | 8,999,562   |

The receipts and shipments of wheat and flour for the past three years were:

| 1892 | e opposite the | .71,949,760         | Wheat<br>Shipm'ts.<br>16,216,085<br>26,050,870<br>17,603,100 |
|------|----------------|---------------------|--|
| 1000 |                | 01,004,000          | 11,000,100   |
| 1891 |                | Flour.<br>Receipts. | Flour.<br>Shipm'ts.  |
|      |                | 69,523              | 7.060.391  |
| 1892 |                | 92,322              | 9,120,560  |
| 1893 |                | 278,740             | 8,999,562  |

LAKE WHEAT TRADE .- " So far as the commercial interests of Philadelphia are concerned, the Record says, "the direct connection with the lakes by way of the Pennsylvania and the Philadelphia and Erie lines might as well never have been made. For the season of open inland navigation until the end of August the movement of wheat from Western lake ports to Buffalo a gregated 43,282,000 bushels, and to Erie 3,064,000 bushels. In the following two weeks, to Sept. 15, not a bushel of wheat was received at Erie, while the additional arrivals at Buffalo in that period were 3,320-000 bushels, or a total in a single fortnight larger than the whole season's shipments to Erie.

"Philadelphia merchants naturally depend upon the movement via Erie for a large percentage of the lake grain shipments which had an outlet through this port. The figures above given should suggest an inquiry into the cause of this sudden cessation of the wheat rcceipts at Erie, particularly as the stoppage occurred when money conditions were on the mend and the disturbances of exchanges no longer imposed an obstacle upon local op ra-tions in the Western grain markets."

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HENRY W. BRACKETT, Department Agent. B. W. DAWLEY, Cen'l Supt. Western Department. 226 LaSalle Street. CHICAGO, ILL.

#### News.

L. BANKS HOLT will build a roller process flouring mill at Mebane, N.C.

JOHN E. DELSONER will erect a ew flouring mill at Ashboro, Ind., this fall.

HORN BROS. of County Line are building a flouring mill in Mocksville, N. C.

J. T. SHANNON & Co. have sold their mill at Butler, Mo., to H. I. Henton & Son.

TENNANT BROS, of Northfield, are to operate the mill just completed at Dundas, Minn.

WALKER & CARSON will establish at Carmen, Man., a large flouring and oatmeal mill.

THE recently-burned Greenfield Flouring Mills in Buckeystown, Md., will be rebuilt.

AT Merced Falls, Cal., Aug. 24, Nelson & Son's flour mills were burned. Loss \$25,000.

N. COCHRAN & SON'S recentlyburned flouring mill at Rock Mart, Ga., will be rebuilt at once.

RABBETH & DUNLAP are erecting a grain elevator at their flouring mill at Clarksville, Tenn.

THE Union Elevator at Louisville, Ky., was destoyed by fire Aug. 31. Loss \$20,000; insurance \$8,000.

STONE & LYONS will immediately rebuild their burned flouring mill plant at Point Pleasant, W. Va.

AT Chaska, Minn., Aug. 27, fire destroyed the flouring mills of Eitel Bros. Loss\$30,000; insurance\$10,000

AT Indian Head, Man., Sept. 7, the flour mill, elevator and engine house of the Bell farm was burned. Loss \$25,000.

AT Strathroy, Ont., Aug. 25, Pincombe's oatmeal mill, a frame building, was burned. Loss \$10,000; insured for \$6,000.

BIDS for the erection of a two-story brick flour mill, with basement have been asked for by the town of Bridgeport, Wash.

AT Richmond, Mich., Aug. 23, the Magic Flouring Mill, owned by H. S. Ballentine, was burned. Loss \$1,500; insurance \$800.

AT Cowden, Ill., Aug. 17, the grain warehouse of D. Kesler & Sons, was burned, with its contents. Loss \$4,000; insurance \$1,700.

AT Pella, Iowa, Sept. 9, fire destroyed the Washington Flour Mills, owned by Tysseling Bros. & Co. Loss \$21,009; insurance \$8,000.

At Mount Vernon, Ind., Sept. 9, the large elevator of the W. C. Fuh-rer Milling Co. was burned. Loss \$100,000; partially insured.

THE Stephens City Steam Flour-ing Mill Company, capital \$15,000, has been chartered to build and operate a mill at Stephens City, Va.

W. L. FAIN, of Atlanta, Ga., has completed extensive improvements at his grain mills at Resacca, consisting of new elevator, warehouse,

I. EMERY, JR., miller at Three Rivers, Mich., is reported to have given a chattel mortgage to the Three Rivers National Bank, for \$25,000.

AT Griswold, Man., Sept. 10, the farmers' elevator, containing 25,000 bushels of new wheat was burned. The elevator was insured but the wheat was not.

Kellogg & Roberts, proprietors of the Wyoming County Roller Mills at Lamont, N. Y., have dissolved partnership. Geo. P. Kellogg continues the business.

THE flouring mill at South Rock-ord, Monroe Co., Mich., belongin g to John Strong & Son, which was de-stroyed by fire some time ago, will be rebuilt immediately.

MINNEAPOLIS parties are putting up a 100-barrel flour mill at Michigan City, N. D. The foundation is laid and the plant will be ready to operate about October 1.

AT Norwich, Ont., Aug. 22, the Oxford roller flour mills and elevator, buildings and contents were burned. Loss \$40,000; insured for \$22,000. Walker, Harper & Co. were the pro-

THE Lincoln flour mill at Anoka Minn., started Sept. 12, after a forced idleness of about two months, to run all winter. The mill is the property of the Pillsbury-Wash-burn Co.

A saw-MILL, machine shop and flouring mill, owned jointly by Jno. & H. A. Webber and Henry Champion, located at Rockton, Ill., were burned Sept. 1. Loss about \$10,000; no insurance.

CHARLES VINCENT has purchased the old Seekonk Grist Mill at Great Barrington, Mass. The mill was built soon after the war of the revolution, and was owned by W. H. Perry of North Adams.

somewhat now and we hope to do better in the near future."

PRICE, NASH & Co., of the Beaumont, Tex., roller grist mills, will erect a rice mill on their property adjacent to the grist mill, which will have a capacity of about 240 sacks per day. The machinery has all been ordered.

AT Dubuque, Ia., Aug. 21, the elevator known as the Bently was burned. It had not been used for grain storage for several years. The original cost was \$11,000 and \$4,000 for machinery. The loss is partly covmachinery. The lo

AT Humboldt, Tenn. August 9, the roller Flour Mills belonging to E. W. Ing & Sons, was demolished by the boiler exploding, and the mill took fire. The entire building and contents were burned. Loss \$12,000; with \$2,000 insurance.

AT Milnor, N. D., Sept. 11, the Milnor roller mill was struck by lightning and burned. About 8,000 bushels of wheat was stored in the building, all of which was burned. The mill was owned by a stock Company. Loss \$18,000, with little insurance.

THE White Star Milling Company, of Staunton, Va. has finished its six story building and the plant has been put in operation. The mill has a daily capacity of 500 barrels, and is one of the largest and best equipped plants in the State.

THE elevator at Diamond Bluff, Minn., owned by Matt Dill, and op-erated by one Johnson, was burned August 27. There was considerable wheat stored in the elevator at the time, and the loss will probably be \$3,500. The fire is supposed to be of \$3,500. The fire is supposed to be of incendiary origin.

The Centurion is the largest craft of any kind now afloat on the great lakes, being 270 feet long and 45 feet beam. She was lately chartered for 155,000 bushels of corn, or 14,000 bushels more than has ever been carried on a lake steamer. She was built at Bay City, Mich.

G.E. DAVIDSON, Eugene Van Voorhis and W. H. Cook have leased the Prescott roller mill at Hastings, Minn., for a period of five years, possession to be given on the 15th inst. Mr. Davison has also become a part-ner with Van Voorhis and Cook in the lower mill at Hastings.

AT Windom, Tex., Sept. 13, fire destroyed four warehouses containing 8,000 bushels of corn, 115 tons of UNDER date of Sept. 1, Mr. D. R. Sparks of Alton, Ill. writes: "We hay and two flat cars. The warehour mill, owing to the difficulty experienced in getting exchange; this point, however, is "letting up" loss, \$6,000.

AT Duluth, Minn., Sept. 17, the steamer Cadorus, heavily laden with flour, came in collision with the Hadley and sunk. The damage to the cargo depends on whether the doors in the water-tight bulk-heads were closed or not. The loss will probably be in the neighbor-hood of \$20,000.

THE Porter Milling Co., owning 27 elevators, and the Winona and Dakota Grain Co., owning 22, have consolidated. A. G. Moritz, secretary of the latter, is also secretary of the Winona Milling Co., which owns 49 elevators. The new company will be able to handle 2,000,000 bushels of grain per annum.

APPLICATION was made to Justice APPLICATION was made to justice Bartlett, in the Supreme Court, Aug. 24, for an order dissolving the Kings County (N. Y.) Milling Company, and for the appointment of a receiver. The financial depression has nothing to do with the dissolutions as the course when now over tion, as the company has now over \$15,000 in cash. Judge Bartlett took the papers.

THE Tileston flouring mill at St. Cloud, Minn., heretofore owned and operated by Geo. Tileston & Co., is in the hands of the Geo. Tileston Milling Co. The new corporation is capitalized at \$150,000, and its incorporators are Geo. Tileston, M. M. Walker, H. Lyons and J. B. Glover of Dubuque, Ia., Geo. W. Parker of Minneapolis, and J. H. Neer of New London, Minn. The mill has a capacity of 1,000 barrels daily.

THE Divine flouring mill property at Chattanooga, Tenn., has been leased by Mrs. Divine for a term of three years to the Mountain City Mill Co. The lessees took possession September 1, and expect to have the plant running to its full capacity by the first of October. The mill has not been in active operation for the past few months, but the Chattanooga Mill Co. has been using the property as a warehouse for their big stock of flour. By the possession of the property the Mountain City people now control the product of four flouring mills. One is at Sweetwater, one at Cleveland and two mills at Chatanooga. This makes the Mountain City Mill THE Divine flouring mill property This makes the Mountain City Mill Co. the monarchs of flour in the State, and they expect to run every one of their mills to their full ca-

THE FIRE LOSS of the United States and Canada for the month of August, as compiled from its daily records by the New York Journal of Commerce and Commercial Bulletin, amounts to \$13,222,700, a very serious increase, as will be perceived by the following figures. THE FIRE LOSS of the United States

CHAS. D. COX, Manager.

MAXIMUM LINES, \$170,000.00. C. W. MEEKER, Ass't Manager.

45 Underwriters, collectively representing \$25,000,000.00. Western Wew York.

The Anemotics Constitution of the American Confection of the Conf TOTAL CASH ASSETS, \$235,692.13. NET CASH SURPLUS, \$214,308.63.

The New York Fire Insurance Company, New York.

SELECTED RISKS ONLY.

226 and 228 La Salle Street,

CHICAGO.

## Wilwaukee Bag Company MANUFACTURERS OF COTTON, PAPER AND JUTE FLOUR SACKS.

The table shows the increase of fire loss during the first eight months of 1893, as compared with the same period in 1891 and 1892:

| are ourse borson .   |              |              |
|----------------------|--------------|--------------|
| 1891.                | 1892.        | 1893.        |
| January \$11,230,000 | \$12,561,900 | \$17,958,400 |
| February 9,226,500   | 11,914,000   | 9,919,900    |
| March 12,540,750     | 10,648,000   | 16 662,350   |
| April 11,309,000     | 11,559,800   | 14,669,900   |
| May 16,660,395       | 9,485,000    | 10,427,100   |
| June 8,587,625       | 9,265,550    | 16,344,950   |
| July 9,692,200       | 11,530,000   | 12,118,700   |
| August 9,055,100     | 10,145,300   | 13,222,700   |
|                      |              |              |

Totals...\$88,302,470 \$87,112,500 \$111 324,000 During July there were 246 fires of a greater destructiveness than \$10,000 each. The losses may be classi-fied as follows:

| 0 | 50, | 000   |           |            |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           | 9         |           |           |           |
|---|-----|-------|-----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|   |     | 000   |           |            |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| • |     |       |           |            | ě.        |           |           |           |           |           |           |           |           |           |           | 0         |           |           |           |           |           |           |           |           |           |
|   | 75. | 000   |           |            |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| 0 | 100 | .000  |           |            |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| 0 | 200 |       |           |            |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| 0 |     |       |           |            |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
|   | 0   | o 200 | 0 200,000 | o 200,000. | o 200,000 |

#### RECENT MILLING PATENTS.

The following list of patents for Milling and Grain-handling Appliances, granted during August 1893, isspecially reported for the UNITED STATES MILLER by H. G. Underwood, Patent Attorney, 107 Wisconsin st., Milwaukee, Wis, who will send a copy of any patent named to any address for 25 cents.

No. 502,883, Dust Collector, A. Gould,

No. 502,883, Dust Collector, A. Gould, Canton, Ohio.

No. 502,696, Middlings and flour separating machine, H. Bittinger, Regensberg, Germany.

No. 502,704, Flour-sifting sieve, A. Schlee, Hagenow, Germany.

No. 502,915, Wheat-scourer, J. D. Sheaffer, Avilla, Ind.

No. 503,748, Grain-meter, W. Howard, Washington, D. C.

No. 503,889, Grain-scouring and polishing machine, J. H. Williamson, Muncie, Ind.

No. 503,719, Grain-measure register, B. F. Haley, Beatty, O.

No. 505,173, Grain-scouring machine, Peter Provost, Menominee, Mich.

TRADE MARKS.

No. 23,429, C. Dorr & Sons, Boston, Mass., Wheat flour, "TOWN TALK" used since 1875. No. 23,430, Thompson Milling Co., Lockport, N. Y., Wheat flour, "PRIDE OF NIAGARA" used since

with the supposed absolutely neceswith the supposed absolutely necessary mathematical equipment. This is no doubt the best course and until the appearance of Dr. Mach's work it has been the only course that would give one any ideas of mechanics that are really fit to be called knowledge. If he did not feel disposed to take so much pairs mechanics that are really nt to be called knowledge. If he did not feel disposed to take so much pains on such a behalf his only recourse has been that repertory of hazy, slazy, confusing, misleading, and utterly impotent dicta that goes under the name of Natural Philos-

ophy.
Various causes have conspired Various causes have conspired to keep the gulf between these two orders of mechanical knowledge as wide as possible. The mathematicians naturally felt no interest in bridging it, since it gave them a practical monopoly of all the mechanical knowledge that was of any efficacy whatever. They made, besides, what seemed a valid protest that there was no royal road to a knowledge of mechanics. But while it is true that royal roads to any sort of valuable knowledge are out of the question, it is not true that one must needs have any great amount of mathematical knowledge in order to compass all the essen-

in order to compass all the essential mechanical principles.
The best proof of this is the work now under notice: THE SCIENCE OF MECHANICS, by Dr. Ernst Mach. Translated from the second edition, by Thomas I Ma Cormask. Chief.

MECHANICS, by Dr. Ernst Mach.
Translated from the second edition, by Thomas J. Mc. Cormack. Chicago, 1893. The Open Court Publishing Co. Price \$2.50.

We are therein taken over the history of the search after, the discovery and the development of mechanical principles and are thereby, in a way singularly easy and efficacious, led into an insight of their nature.

At the same time there is no sacrifice of rigor and exactness. We venture the prediction that among those who will be glad to seek the enlightening lines of Dr. Mach, not the least appreclative will be many of those who have been wrestling with the aridities of mathematical symbols. In short, in Dr. Mach's work we have a first example of the solidities and precisions of exact science made plain to all who care to know them.

The first edition of this work was

The Open Court Publishing Company, readers in the English language have presented to them a translation that is in every respect

translation that is in every respect honorable to American scholarship and to American enterprise.

The conspicuous merits of Dr. Mach's work are manifest on even a cursory inspection, but they become more and more prominent as one becomes better and better acquainted with his presentation of the very important topics of which he treats.

THE Review of Reviews for September is a number of fine variety and timeliness. It epitomizes and synchronizes the whole planet for the month of August, 1893. It discusses the monetary crisis, the silver debate, the tariff outlook, the Bering Sea decision, the French attack on Siam, the progress of the Home Rule bill, the politics of the European continent, various matters at Chicago and the World's Fair and a hundred other timely subjects, the whole number being profusely illustrated with portraits and pictures. A sketch of Engineer Ferris and his great wheel is a singularly readable and attractive article, and Mr. Stead contributes a most noteworthy character sketch of Lady Henry Somerset. There is an illustrated review of the fascinating story of Joan of Arc, the inspired Maid of Orleans, and a group of papers on the silver question by professors in the University of Chicago.. The "Leading Articles of the Month" are notably well selected, while the "Record of Current Events" gives one a summary day by day of the remarkable course of the recent "Record of Current Events" gives one a summary day by day of the remarkable course of the recent monetary crisis, and the cartoon reproductions in the "Current His-tory in Caricature" are uncommon-ly entertaining.

#### BRITISH GRAIN TRADE.

The "Mark Lane Express" of Sept. 11 says in its weekly review of the British grain trade:

cided to buy 24,500,000 quarters of rye. This course was suggested partly by the present cheapness—17 shillings per quarter—at St. Petersburg, but the purchase is regarded also as a menace to the European peace in the coming year. Germany admits a deficit of 4,126,000 quarters of rye and an increase of German purchases of wheat in the English market is expected."

"To-day there was a good inquiry for English wheats, which were held for a shilling advance. Foreign wheats were held for six-pence advance. Corn was bought at 3 pence advance. Grinding barley was 6 pence dearer; oats, 3 pence dearer. Flour was held for 6 pence advance until about the close, when a good business was done at last week's prices. Rye and pulse were steady."

As the season progresses the va-ried character of this year's grain harvest becomes very pronounced, and it is no uncommon thing to have reports of good wheat crops almost side by side and in the same localities as those from which bad or indifferent yields are reported, says the London Times of the 11th inst. The scoret seems to be so far inst. The secret seems to be—so far as careful inquiry can elucidate the matter-that on good lands and in spots where deep cultivation was adopted last autumn excellent crops have this year been gathered; but these have been far more than counterbalanced by bad and indifferent yields.

### Florida and the Sunny South, via the Big Four Route.

To all persons contemplating a southern trip, the Big Four offers special attractions and advantages possessed by no other line. Solid Vestibuled trains, heated with 3team and equipped with palace sleeping cars, reclining chair cars and elegant parlor cafe dining cars run daily, making connection in Central Union Station, Cincinnati, with through express trains of the Central Union Station, Cincinnati, with through express trains of the Queen & Crescent Route, Louisville & Nashville, Kentucky Central and Chesapeake & Ohio Railways, avoiding thetedious transfernecessary on otherlines and affording practically through train service to Old Point Comfort, Asheville, Chattanooga, New Orleans, Savannah, Jacksonville, St. Augustine, Tampa, Indian River and all winter resorts of the South. Tourist tickets via the Popular Big Four Route at special low rates are on sale at all coupon ticket offices throughout the county. Ask TALK" used since 1875.

No. 23,430, Thompson Milling Co., Lockport, N. Y., Wheat flour, "PRIDE OF NIAGARA" used since Mov. 1, 1890.

A VALUABLE WORK. "The Science of Mechanics."

To any one desiring to become instructed in mechanical principles there has until now been only two courses available. He might take the regular mathematical disciplines preparatory thereto, and after a long course of study advance to the study of mechanics provided

TALK" used since 1875.

Solidatics and precisions of each science made plain to all who care to know them.

The first edition of this work was published in Germany ten years ago, as Vol.59 of the "International Scientific Series." At that time its supposed lack of adaptation to popular dropped as one of the volumes of that "Series" as published in the English language. But, at least in Germany, it was found "popular" enough to cause the first edition to be become exhausted in less than five years, and a second edition to be demanded, and now, by the favor of

#### THE WORLD'S WHEAT SUPPLY 275,000,000 or over 60,000,000 government, and adding there-FOR 1893-1894.

Review of the Situation by an Expert.

(Written for the Shipping and Commercial List.)

THE recent advices from Austria furnish a good deal tion on the above subject. From Vienna the summary of the estimates of the annual Grain Fair, held there on August 28, shows the average condition of the wheat and other grain crops of the principal producing countries in Europe, also estimated extent of this season's wheat crop in Austria, Hungary, British India and the United States. Along with this report we have the estimates of the Hungarian Minister of Agriculture, showing in tabular form the production, surpluses and deficits of wheat in most of the wheatproducing countries of the world. According to these estimates, the world's production of wheat in 1893 has been 2,279,-000,000 bushels, as compared with 2,280,000,000 bushels, the annual average for preceding ten years; the aggregate deficits of the importing countries is placed at 379,000,000 bushels and the aggregate surpluses at 378,600,000 bushels.

Following the receipt of these two reports, two rather singular conclusions have been deduced from them and pretty widely circulated—(1) that although the world's wheat production in 1893 is equal to the average of last ten years, it is, however, 206,000,000 bushels less than that of last year (1892); (2) that the wheat crop of Eu-

than in 1892.

As is to be expected in publishing cable messages containing quantities given in foreign measures, which some-times express higher or lower weights, there are always some little difficulties in converting into American standards, and discrepancies will result. In the recent dispatches from Austria there are two or three unimportant differences as to the extent of wheat crop in Austria, Hungary, Italy and France, but the totals for these four countries correspond very closely. There is an evident error in the estimated surplus given for Bulgaria and Servia in one of the returns as 465 metezenter (about 1700 bushels). but in the table compiled from report of the Hungarian Minister, the surplus of Bulgaria is given as 10,782,000 bushels, and for Servia 3,406,000 bushels. There is a very important error in giving the Worlds' Fair re-port for British India, by which it is made to say that this estimate was as to the total the estimated yield for 1893 is 2,236,000 tons, as compared with 5,142,000 tons, in 1892. This is a palpable mistake, as the wheat crop of india in 1893 was to 1891, as estimated was as to the total dentedly low, and it may be assumed that the consumption for human food will be increased, the wheat crops of the United that a larger quantity of wheat will be fed to cattle, and that a considerable quantity of wheat to 1891, as estimated by the considerable quantity of wheat sin England becomes more and more general and the rainy weather continues, the hope of the farmers securing a wheat crop, which up to the present shows one of exceptional quality, grows fainter and fainter.

bushels more than in 1892. All these discrepancies are easily adjusted, and do not create any difficulty in deciding as to the erroneous character of two unfounded conclusions as to decompared with last year.

According to the tables prepared from the estimates of the Hungarian Minister of Agricountries in Europe amounts to 1,321,387,000 bushels in 1893. In the early part of last season, Dornbusch's estimate of the crop in Europe for 1892 was 1,152,400,000 bushels; Beerbohm's, 1,232,000,000; other au-1,249,000,000; later thorities, the way of increases or reductions, made the crop 1,285,000,000. (In Dornbusch's estimate the crop of Austria, 48,000,000 bushels, did not seem to have been included.) The book on 'Production and Distribution," published by authority of the United States Secretary of Agriculture, shows average annual wheat production, in Europe during the ten years 1881 to 1890 as 1,265,000,000 bushels. Thus it appears that the estimate of the Hungarian shels. Minister of Agriculture shows an increase in crop of 1893 over the ten years' average, also an increase, instead of the alleged deficiency, as compared with crop of 1892. As to the deficiency claimed between the world's wheat crop in 1893 as compared with 1892, this position is equally unfounded. cording to the Hungarian Minrope is 100,000 bushels less ister's estimation there is, outside of Europe, a deficiency in the United States crop of 120 million bushels, against which there is an increase in British India of 60 millions, in the Argentine Republic of 20 millions; other increases or decreases not important. The net deficiency outside Europe is about equal to the net increase in Europe. It is difficult to understand how such conclusions as to deficiency, either in crop of Europe or of the world, can be deduced from the figures in the Vienna tables.

Another unaccountable statement is being widely circulated, to the effect that, according to an estimate published in the London Times, August 28, the United Kingdom will require to import during the crop year 1893-94, in wheat and flour, equal to 224,000,000 bushels (28,000,000 quarters). No doubt this will be found to be a misrepresentation of the statement of the Times, and that

to the net imports of wheat and flour, the average annual consumption is ascertained. By dividing the average consumption by the average population of these eight years, it of timely and valuable information on the above subject. crop in Europe or the world, as almost exactly the per capita almost exactly the per capita consumption, including food, seed, manufacturing and all other purposes. The immense imports of foreign wheat and culture, the wheat crop of the flour during 1891-92 and 1892-93, when added to the medium crop of 1891 and very deficient crop of 1892, have led to the accumulation of vast reserves of native and foreign wheat. These reserves, including the excess over average of wheat and flour now afloat for United changes in the estimates, in Kingdom, must amount to from 20 to 30 million bushels above the general average. Estimating the present population of Great Britain as 38, 250,000, this makes consumption in 1893-94, at six bushels per capita, 229,500,000 bushels. To meet which, the excessive reserves September 1, 1893, were 20,000,000 bushels; wheat crop United Kingdom for 1893, 56,750,000, a total of 76,750,000 bushels; which makes requirements of foreign wheat and flour for 1893-94, 152,750,000 bushels; to leave average reserves on September 1, 1894 and large reserves on September 1, 1893, as 172,750,000 bushels.

The estimates based upon the figures of the Hungarian Minister of Agriculture are preliminary estimates only, and may be considerably varied by later reports when further progress has been made in threshing and delivering. So far as the United States crop is concerned, the estimates in the Hungarian table, both as to extent of crop and surplus for export, are likely to be largely exceeded. Commercial and State reports from California, Michigan, Indiana, Illinois, Iowa, Wisconsin and North Dakota all show a much better outturn for the wheat crop than was indicated by the national Government report of condition on

August 1.

The statistical position is unpromising. If the world's wheat crop in 1892 was sufficient to meet all requirements during 1892-93, and leave very large reserves to be carried over into 1893-94; and if the world's wheat crop of 1893 shall prove to be as large as that of 1892, as appears to be the case, the deduction must be, that the reserves at end of the present crop year will have undergone another increase equal to that which has taken place in 1892-93. On the other hand, prices are unprecedentedly low, and it may be as-

will be withheld from market. This last result appears to have already happened in British India, where, with a wheat crop in 1893 about 60,000,000 bushels larger than in 1892, the exports since April 1 have only been about one-half of those in the same time in 1892. It is said that the charges for transportation, &c., from the place of growth in some of the outlying districts in India to the markets in Great Britain are about equal to the value now offered for de-livery there. The same may be said with respect to some of the distant provinces of Russia. The result of the wheat harvests to be gathered during our win-ter months in British India, Australia, Argentine Republic, Chili, upper Egypt, Syria, Asia Minor, etc, may have an important influence on prices later in the season. These countries produce about 20 per cent of the whole wheat crop of the world.
Admitting all that can be said

as to chances of improvement in prices, that speculative sentiment at present prices may easily contribute to an advance, the supply is too abundant to justify any expectation of permanent improvement. Certainly the position affords no warrant for the issue of the dangerous Granger circulars in the West or for the rash advice of many newspapers, urging farmers to "hold their wheat." The experience of the past two years furnishes abundant evidence of the risk incurred by the adoption of such a policy. Not only was there a heavy loss sustained in the amount realized from the crops, but the withholding from export of about forty million dollars worth of wheat largely contributed towards financial trouble from the which the United States has suffered so severely.

ROBERT. H. LAWDER

NOTICE of the death of A. F. Roberts was posted on the New York Produce Exchange Sept. 19. It occurred on Sept. 18 as the result of consumption, from which he has been suffering for several years, and by which he has been kept from active business for a year past and from the Exchange for several months. Roberts was one of the oldest landmarks in the New York flour trade, having been associated with his brother under the title of L. Roberts & Co. till the failure of L. Roberts, since when the firm has been A. F. Roberts & Co. The house was one of the original South street flour and grain commission houses.

#### Milwaukee Notes

THE Milwaukee Automatic Fire Service Company has been incorporated to manufacture and deal in all kinds of apparatus for the purpose of automatic fire alarm transmitters and fire service sprinklers. Capital \$50,000.

THE local money market is quiet and steady with a moderate supply of loanable funds which are divided among borrowers entitled to consideration on the part of their bankers. The rate of interest is steady at 7 per cent per annum. Bank clearings indicate a steady improvement in the business situation.

Awards have been made by the Board of Judges of the World's Fair in the Machinery Department for woodworking machinery to the Edw. P. Allis Co., for bandsaw machines, automatic log flippers, flooring and edge board machine and its adjustment of feed rollers, gang lumber trimmer, lathe bolter and lathe mill machinery.

James W. Deguenther, who purchased the whole of the capital stock of the Midland Maizea Milling Company on February 13, this year, for \$22,000, giving \$14,000 in cash and promissory notes for the balance, is sorry of his bargain and wants the contract set aside. He has brought suit in the superior court against the sellers, in which he alleges that they misrepresented the business of the company to him, and he asks that the contract be declared void and that the \$14,000 be returned.

WILLIAM W. BROMLEY, commercial agent of the Big Four route and Vincent Tuttle represented the exporting interests of Milwaukee at the inauguration of the Chesapeake & Ohio Steamship Company at New-port News, Va. The new company will handle a fleet of six boats that will ply between Newport News and Liverpool, London and Glasgow. There were about 200 representative railroad men and men representing the exporting interests of the country present at the inauguration. The Chesapeake & Ohio Steamship Company will give Milwaukee shippers a direct line through the interest of the Big Four and connections to the principal European ports.

One of our daily journals has been investigating the various ratios, adopted by city directory publishers, in estimating the population. In the first twentyseven cities of the United States, as regards population, the ratio used varies from 1.70 to 4.50 per cent of population for every enumerated name in on flour, grain and feed to New the City Directory for the year York.

The ratio used by the Milwaukee compilers was 2.67 per cent. On the basis of 1890 computations adapted to latest published directories, Milwau kee steps into the thirteenth station, in point of population, among the great cities of the country, having risen three points in the three years since the last United States census, and she now steps in advance of New Orleans, Washington and Detroit, with a strong lead which promises to land her in advance of Pittsburgh long before the next census is taken. Milwaukee's percentage growth has been higher, in the past three years, than that of any other city in the United States except Chicago, which has had the exceptional impetus the World's Fair has given

GRAIN FREIGHTS-Are quiet and steady on the basis of 11/2c for wheat by lake to Buffalo. The demand for room is light, and confined to broken lots.

Flour-Is steady and in fair demand at \$3.80@3.90 for hard spring wheat patents, and \$4.00 is asked by some millers. Eastward freights have advanced except on one line.

Millstuffs-Are dull at \$13.00 @13.25 for sacked bran and \$14.00@14.25 for middlings, though some holders ask 25c more.

THE stock of wheat here Saturday the 19th inst. was reported at 946,071 bush, against 1,076,000 the corresponding day last year, 133,000 in 1891, 213,000 in 1890 and 402,000 in 1889.

The grain inspection into store in Milwaukee during the month of August was as follows: Wheat-100 cars No. 1 Northern, 32 cars and 68 loads No. 2 spring, 210 cars No. 3, and 39 cars No. 4; also 5 cars No. 2 winter, 57 cars and 1,485 bushel No. 3 and 3 cars No. 4; 109 cars No. 2 hard, 8 cars No. 2 mixed and 33 cars No. 3 mixed, 3 cars No. 2 red and 4 cars no grade. Corn-19 cars No. 2, 64 cars No. 3 and 4 cars No. 4. Oats-42 cars No. 2 white, 334 cars No. 3 white, 3 cars No. 2, 7 cars No. 3 and 8 cars No. 4. Barley—11 cars extra, 13 cars No. 3, and 7 cars No. 4. Rye—33 cars No. 1, 69 cars, 1,815 bushel and 2 loads No. 2 and 3 cars No. 3.

Inspected out in Augustye—500 bushel No. 1. Wheat -201,000 bushel No. 2 hard winter. Oats-6,863 bushel No. 3 white.

ALL rail rates are quoted on the basis of 25c per 100 lbs. for flour and grain and 271/2c for appropriation of a trade mark, boxed provisions to New York. an account of which appears Lake transit rail rates are all on the basis of 23c per 100 lbs. on flour and feed to New York, and 251/2c on provisions, Lakeand-rail rates have been fixed on the basis of 20c per 100 lbs.

THE average daily production of flour by the city mills for the four weeks ending Sept. 16 was 6,556 barrels.

HE arrival of the 1893 catalogue of the Great Western Manufacturing Company of Leavenworth, Kansas, is just in time for us to publicly acknowledge its receipt. This is the thirty-seventh catalogue issued by this company since its establishment in 1858 and is in line with the general aim of the company regarding its productions — improvement, advancement. The 250 pages of the work are replete with descriptions, illustrations, prices, capacity, etc., of the various kinds of machinery manufactured by the company, yet they announce that "it cannot be expected that in a catalogue of this kind we can describe minutely all the various kinds of machinery which we man-of a desire to imita ufacture. \* \* \* It is our fringe, for a purpose. aim to keep fully abreast with the times in the latest improved methods of manufacturing, and to turn out machinery of the best class." Those interested should send for a copy of the Co. of Minneapolis, on a balance 1893 catalogue.

THOUGH we have not, since its receipt, had time to read and thoroughly examine the contents of the Ninth Annual Report of the Agricultural Experiment Station of the University of Wisconsin, a hurried headings and the perusal of a few sections on some of the subjects embodied in the work assures us of its value. In its treatment of the subject, "The Smut of Wheat and Oats," the language and terms used are perfectly comprehensible to the ordinary reader; for, though the technical words are given, the common, every-day name for same is also given, which is a very thoughtful provision and we know the same will be appreciated by the general reader. The plates used to illustrate the work are well executed and very compre-hensive. The reports and bulletins of the Station are printed by the State and will be sent, upon application to all residents of the State, who wish to receive them. All commuica-tions should be addressed to the Director, Prof. W. A. Henry, Agricultural Hall, Madison,

THE question involved in the suit for damages for the elsewhere in this issue, can not be as to the right of defendant to the use of the word "Best" racter, such as Fine, Superfine, Reports.

Extra, Best, Etc., according to court rulings, can not be appropriated as a trade mark by any one, to the exclusion of others. We presume the point at issue to be the right of plaintiff to the exclusive use of the particular style of letters and formation of the word and its connection with the balance of the brand as adopted. According to the account given, there does not seem to have been a very serious intention to misrepresent the article or to mislead purchasers in this case, as the name of the manufacturer and location of mill, both of which are entirely different from those of plaintiff, are made part of the whole brand; but it must be admitted that the use of a facsimile as to the word "Best", where there would be no trouble whatever in selecting a different style and form of the same word, has the appearance of a desire to imitate or in-

In the United States court at Minneapolis the Edw. P. Allis Co., of Milwaukee, brought suit against the Columbia Milling of account of about \$3,000 claimed to be due for machinery put into the mill and the Columbia Company brought suit, in the same court, against the Allis Company for \$50,000 damages, claimed to be sustained on account of the failure of the machinery put in glance at the many and varied to do the work promised for it. headings and the perusal of a A verdict has been given for the Columbia Company in the sum of \$21,966.70. Counsel for the Allis company took the statutory stay of forty-two days.

### SICILY'S AGRICULTURAL PRO-DUCTS.

Sicily does not produce sufficient agricultural products for her own consumption, and is therefore, necessarily an importer. That her production has assumed proportions of any importance whatever is much more largely due to a rich soil and favorable climate than to the manner of cultivation.

Her wheat crop last year was below the average, and the condition of this year's crop is even worse. She imports annually large quantities of wheat from Egypt and the Black Sea countries, which amount will, this year, be augmented. Yet of the \$750,000 worth of wheat imported last year, none came from the United States. It would appear that, with little effort, a market for American wheat might be established, especially in view of the volume of fruit shipped to the United States and the number of steamships engaged in the trade that in connection with a brand of would gladly make a cheap flour, because the word itself is freight rate so as to return with but an adjective, denoting a cargoes rather than in ballast, quality, and words of that cha- as many of them do.-Consular

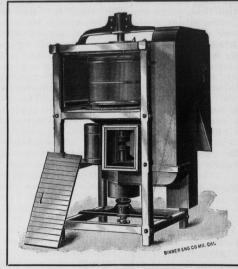
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WIDOWS of such soldiers and sailors are entitled (if not remarried) whether soldier's death was due to army service or not, if now dependent upon their own labor for support. Widows not dependent upon their own labor for support. Widows not dependent upon their own labor for support. Widows not call the sail of the soldier's death was due to service.

PARENTS are entitled (if under sixteen years) in almost all cases where there was no widow and the sail of soldier is death was due to service, and they are now dependent upon their own labor for support. It makes no difference whether soldier served or died in late war or in regular army or soldiers of the late war, nearly one late of the late war, nearly one late of the late war.

port. It makes no difference whether soldier served or died in late war or in regular army or navy.

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| 68-C MITCHELL BUILDING, MILWAUKEE.   |
| Subscription Price—Per Year, in Advance:<br>To American subscribers, postage |
| prepaid\$1.00  |

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#### MILWAUKEE, SEPTEMBER, 1893.

We respectfully request our readers when they write to persons or firms advertising in this paper, to mention that their advertisement was seen in the UNITED STATES MILLER. You will thereby oblige not only this paper, but the advertisers.

#### Editorial.

WHILE the financial blizzard which has been raging for the past four months, carried destruction to nearly all classes of manufacturing industries. throughout the country, both east and west, it is pleasing to contemplate the fact that very few if any of our milling firms have been "forced to the wall" or even thrown into suspension, by the numerous bank wrecks that have occurred. One would suppose that mill owners would have suffered with the others in the general collapse.

Bread-stuffs had reached the lowest prices possible and the shrinkage, which had been going on for eighteen months or more, had gotten to a point where further depreciation was all but impossible, consequently the milling industry was saved from the furious storm which overtook other lines of trade and which had not reached their lowest level. Now that times begin to brighten and trade becomes more brisk, the miller finds that he starts at the bottom of the market, in purchasing the raw material and the trade, having become impressed with the fact that the panic did not further reduce prices, are now more willing buyers, and it is natural to expect that with the present bullish prospect for wheat, millers will have a prosperous year from this time out.

Some good signs have already appeared on the surface other branch of trade would has seen, four months ago, applicants.

which, if not done away with submit to these methods, withby the overanxiety of millers to sell, regardless of consequences, will result in obliterating one, if not two very undesirable conditions which have gradually crept into the trade, within the last few years. We refer first, to the abominable practice of selling flour to be ordered out at the option of the buyer. In many cases this option is unlimited as to time and, in some running six months or more. The inabliity to finance these sales has forced millers to limit the time for ordering out, to thirty days at the outside; the second practice referred to is selling on thirty and in many cases, sixty days time. This practice, too, has been curtailed, for the same reason as the first one.

It has always been a mystery to us, why millers, with the usual narrow margin on flour, ment. In the subsequent suit, should not sell their products for cash only or, if time must be given, why should there not be a regular charge per month for carrying flour, similar to the charges of elevators for wheat.

A case in point has been brought to our notice; a prominent milling firm-located not a thousand miles from the great milling centre-sold a New England buyer 1,000 barrels of flour, we will say at four dollars and fifty cents per barrel, delivered at New England; four months later, this purchased flour had not been ordered out; the miller ground the flour ready for delivery in May, yet in September it was uncalled for. . The represented money, put into carrying wheat, would have netted the miller six cents per barrel and his original profit did not exceed probably, fifteen cents per bar- "I WILL NOW" said the varel, on the flour sold; and the buyer is a lost customer to this western Miller, "give you firm; he will bide his time and, another of my realistic imitawhen the market reaches the tions of a jackass trying to purchase price, will immediate- kick the light out of the moon, purchase and should the miller his oats," and forthwith he prointerest or "carrying charges," ing the earth".

out strong protest.

THE time is drawing near when the several suits entered by J. H. Russell against Wisconsin millers, who have paid high for the privilege of purchasing and using middlings purifiers, manufactured under the Geo. T. Smith patents, ation shows that the total remust come to trial.

In the suit against J. O. Kendall & Co., of Hartford, demurrer was filed, on the grounds that Russell, being simply a licensee and having no legal title to the patents, could not maintain the action indicated in his bill of complaint. This demurrer, though seemingly sound law, was overruled by Judge Jenkins, to the surprise of nearly every one. Answer to the bill was thereupon promptly filed, but it has never been called up for arguagainst J. B. A. Kern & Son, demurrer was filed, upon the same ground, and citations made, which it was believed must result in sustaining the plea. Judge Seaman, before whom the suit was heard, however, followed directly in the footsteps of his predecessor. Answer to this bill of complaint will be filed October 1st. All other points of defense against Russell's claims failing, there remains the old question to fall back upon, as to the validity of the Smith patents, which has never reached final decision in the courts. Those who are well posted relative to the old litigation upon these patents have little fear but that the defendants will ultimately succeed in their fight for justice, at the rate of over thirty cents but it will take much time and per barrel-it cost fully six involve great expense to bring upon it as "spice" in literature. cents per barrel, as interest, about the desired result. It is to carry it-making a total an outrage that tedious and exloss, to the miller, of thirty- pensive litigation of such a nature should be possible.

riety star of the Northpropose to charge reasonable ceeds again to make a silly

when correct reports were printed of the Millers' National Convention, and which his agile imagination has enabled him to distort and re-distort until he seemingly does not know what the figures actually were. On July 21st he claims that the report of the Treasurer of the Millers' National Associceipts for membership fees, for the year ending June 1, 1893, amounted to but \$175, which he asks to have compared with an average receipt of \$3,120 per annum claimed by him, during the period when he thought he ran the machine. Now, evidently neglecting to consider what tales he has heretofore told, or review the minutes of the past, (as all good prevaricators are wont to do) he asserts that the Treasurer's report, aforesaid, showed that he had received for initiation fees \$175 and for dues \$3,012, paid on the basis of but \$3.00 per unit of capacity instead of \$5.00, as in King Willie's time, making a total of \$3,187 for the year, equivalent to \$5,195 on the old \$5.00 basis, which does not sustain his former boastful comparison to advantage.

If anybody read or noticed this sort of stuff, which so delights the youthful editor and which he so persistently imposes upon the otherwise fair pages of his publication, it might pay to show up his inconsistencies and eccentricities in handling facts. Even the blackguardisms and choice epithets of "liar," etc., etc., with which he interlards his "editorial" effusions, have lost their savor for the few who like that sort of thing and have looked

WE acknowledge the receipt of a copy of "Souvenir World, s Columbian Exposition. 1893", which is the title of a handsome pamphlet issued by the Dodge Manufacturing Co. Engineers, Founders and Machinists, Mishawaka, Ind. It is replete with interesting and valuable information rely demand the delivery of his because it happens to shine on lating to their manufactures and other matters in connection with power transmission spectacle of himself, by letting and the half tone illustrations he would be accused of "Want- fly with his heels into empty are of a superior class. The space and braying loudly over souvenir is for gratuitous dis-We are loth to believe any some statistics which everyone tribution and will be mailed to

### Correspondence.

[The following letters are all from our own special correspondents, and reflect their views and the views of the trade in the location from which they write.]

#### NEW YORK.

Export Demand Falling Off. European Markets Glutted. But Home Trade reviving with Return of Confidence. Easier Money. Repeal of Silver Legislation and Bellef in Higher Prices later on. Flour already Advancing.

THE almost unprecedented export demand for our wheat, for the past three months, or since the collapse of the corner in Chicago, has been followed by a natural slackening in demand, the last month, because Europe has become congested by the continuous and heavy arrivals of this immense volume of supplies, taken on a declining market, to "average down" on previous purchases, and because it was abnormally cheap, and also, because Europe had a heavy shortage to make up before another crop. The same has been true of flour, to which has been added the burden of heavy consignments from our mills direct, during our money stringency, when funds could be more easily and cheaply obtained on the other side to carry the accumulated stocks in millers' hands, that could not be sold here during the panic. The result is that Europe has anticipated her shortage for the first half of the crop year, to a great extent, and cannot take more, freely, until her storage capacity is relieved and the pressure of spot arrivals reduced. This applies both to wheat and flour; and, so good an authority as Mr. Henry Koper, of Grinnell, Minturn & Co., who have been by far the largest exporters of flour from this market, on this crop, tells me, after a three months' visit to the United Kingdom and Continent, that both are so glutted by their stocks and continued arrivals on old forward purchases, that neither will be able to resume purchases, on a large scale in our market, this side the new year.

Besides, there has been, and still is, a loss in nearly all this enormous volume of imports; and, the other side is waiting for our money panic to subside and a bull reaction here, to lift European markets where they can get out without loss or with a profit. But, this very condition of affairs abroad, is preventing a further advance here than that caused by the reaction from the acute stringency in the prompt and decisive repeal of the wretched silver legislation of the past four years, by an overwhelming majority in the lower branch of congress. Those who bought wheat in anticipation of that action, or on

necessary support for a further advance is to come from during the next two or three months, while Europe is digesting the This, and the increasing interior receipts of winter wheat, since the currency famine and domestic exchange embargo have been relieved, simultaneously with the beginning of the spring wheat movement, have caused the downward tendency of our wheat markets the last week or ten days, notwithstanding the Bears became alarmed by the appearance of "outside" buying, after the action of the House on the Repeal Bill, and covered their shorts. Since then, this "outside" or sentimental demand has ceased; and, without the usual "short support, there has been nobody to take the daily realizing sales of those who bought a couple of weeks ago for the Silver Repeal Boom and the natural reaction that had been expected whenever the panic should subside. The market for wheat has, therefore, been drifting into a dead net, from which there is neither enough speculation nor export demand to lift it, yet just enough to prevent anybody selling enough to break prices sharply. The opinion is consequently gaining that we will have this sort of a market until the last half of the crop year makes the crop shortage felt, as there is little news now that can affect prices, since world's crops are secured and estimated closely enough to remove the fear of anything like famine prices on the last half of the crop. Hence there is little disposition to "bull" prices now, for what may happen six or nine months to come; for, the trade and financial outlook, here and abroad, is not sufficiently hopeful to encourage "bull" speculation, even if there were enough speculators who have escaped the losses of the late panic, to make a "bull" campaign possible, for the present.

This is the situation in wheat, and also in flour for export. But there is a better feeling in the home trade for the latter, that has been slowly but steadily developing the last ten days and has resulted in more free buying the last week than has been experienced since sometime before the panic. As noted in former letters, this trade had become so discouraged in the last two years, buying on an the money market, following almost constantly declining market, that "bargains" could no longer tempt them to purchase or contract ahead of their immediate wants, no matter how tempting they might seem. The consequence was that stocks in second hands were seldom if

cause they fail to see where the the trade had to buy a little, and latter had been about the same when they began to look around for supplies, they found stocks per annum. Mr. Pillsbury came for supplies, they found stocks moderate or small, and millers down on the previous occasion, indisposed to sell at any fur- and he and Mr. Sweezey dined indisposed to sell at any furenormous meal she has eaten. ther concessions on stuff al- together and the "unpleasantready here, while they refused spot prices for stuff to arrive. This condition of things had been brought about by curtailed production during the panic; sales, or consignments to Europe of a larger proportion of that price. Mr. Smith, the sole the production of mills running, agent for Pillsbury's Best in than usual, and higher prices at other eastern and southern trade centers, than had been

ruling here.

For the first time in a year, except for low grades, the buyers found they had to do "the walking" to find what they wanted; and, the competition friends admit that he cut the was strong enough to enable sellers to dictate terms instead of the buyers. This new sort of experience soon created the feeling that flour had at last struck bottom, whether wheat had or not, and confidence in the immediate, as well as remote future of the market began to displace the despondency that had characterized buyers for months, resulting in the best and most general demand for all trade brands, during the past week, that has been seen in months. It was not so active, however, as it has been in that line, for the reason that there were no big blocks sold to a few large jobbers, as used to be the case; but everybody was in the market for car lots up to 1,000 and occasionally 2,000 and 3,000 bbl. lines, of all kinds of spring and winter medium and high grades.

It begain in winter straights and choice clear do., extended to spring bakers, then to spring patents and finally to winter patents, which were neglected until after the former named grades had been advanced 10c. at least, although they had been ruling for months below their relative value to other grades, attracting demand, \$3.70@\$3.75, while without namely. straight winters were selling at \$3.10@3.25 and spring patents at \$3.90@\$4.10 for the standard to fancy brands of Minneapolis and Duluth, excepting Pillsbury's, which was not quoted below \$4.30, although it was unsalable until recently at that price, at which about 20,000 bbls. were taken before the advance to \$4.45, the middle of last week.

In this connection there has been a deal of gossip in the trade, about the second rupture between Pillsbury and Sweezey, who has handled more of his patent in this city for years than any other jobber. It arose, as did the first break, about six months ago, over the large amount of "Perfect"—the Consolidated Company's crack patthe unexpected majority in its ever so light as during the favor, have since been selling out, on every thing spot, be-therfore, nearly everybody in bury's, although his sales of the

ness" was fixed up. The last "row in the family" occurred on the failure of Sweez y to maintain the uniform price of \$4.60 with 30c. per bbl. rebate to all jobbers who did not cut this city, suddenly announced to the trade, about three weeks ago, that he had refused to sell Mr. Sweezey any more of that flour, and alleged as a reason, that the latter had violated his agreement to maintain the price fixed by the mill. Mr. Sweezey's price, as he had always been able to do, by reason of the larger amounts of the brand he bought than any one else and, without objection from Pillsbury, until after the first break. But they also claim that Mr. Sweezey never signed the agreement to maintain the mill price, as that would prevent his making his own price to his customers as he had always done. So the fight goes on, in silence on both sides, since the first explanations given above were made, with the Consolidated Company and its New York agent, Mr. Perrin, the chief beneficiaries.

Our city mills have been able to keep their patents sold up to or ahead of production through the stagnation, as their blended flours have made big inroads on the city and New England family trade in place of both spring and winter patents, during the past year, for reasons before explained, that blended flours are equally good for bread and pastry, whereas neither of the former are, while the percentage of patents made by our city mills is much smaller than either of the others (about 40 per cent), and hence the quality Superior, as shown by the price the grocers, who formerly used the western flours exclusively, are paying for the city, namely, \$4.25@\$4.50, as to brands and sized lots. But then, West India grades have dragged, as they have done since the price of western clears went to \$3.00 for standard and straight do. to \$3.25, while city clears have been held right through the depression at \$3.75 @\$3.80, or the top price of winter patents. On the other hand, the drought in this country and in Europe and short pasturage and feed crops has given these city mills a monopoly of our market and some eastern cities, and of export trade in bran, which has been a regular bonanza to them at 80@821/2c. at which they keep sold ahead, on an average, a month, right along. This price is, delivered at their mills

In low grades of flours there

has been an enhancement of and all taking profits from the values for spring for feed purposes below \$1.90. But they have been almost nominal, having been contracted ahead for export. Low grades of winter have not advanced with trade brands, as they were relatively too high before, on the late reduced production, and with an increase now, they are easier, especially superfine winter at \$2.00@2.10 in sacks; \$2.20@2.30 in bbls.

Rye flour has been held up, until the latter part of the month, by scarcity on account of the drought in this state and low water for running mills. But the latter half of the month has been blessed with rains and the supply has caused an easier market at \$2.90@3.25 for superfine.

NEW YORK, Sept. 9, 1893.

#### BUFFALO.

THE demand for flour during the past three weeks has been enormous in the face of existing conditions of the banks. Spring patents which were sold on the first of this month at \$3.90@\$4.00 advanced to \$4.20@ \$4.25 during the first week and sold up to \$4.30@\$4,35 by the 10th. Winterstraights were also higher, sales being made at \$3.35@\$3.40.

With an easier money market the John T. Noye Manufacturing Company will again assume control of their immense business. Work has been slack there for some weeks, but will be resumed this month.

The big wheel pit, of the Niagara Falls company is 200 feet deep, 20 feet wide and 100 feet long, and will contain four wheels of 5,000 horse power contain four each.

The Coatsworth elevator was destroyed by fire. Of all the hard luck this big storehouse has had more than its share. Built on the "cheap John" plan, it was one of the principal causes of the death of its builder. It first settled toward the slip on the east and then tried to topple over into the river on the north. After being repaired, the sides bulged out and at no time would the machinery or scales work to satisfaction. Finally it went up in smoke much to the relief of everybody who ever had a pound of grain in it.

The Fulton elevator destroyed by fire at the same time the Coatsworth went up in flames was an eyesore and a danger. It had not been used in 25 years but still had a share in the elevating association's profits. Several cables were required to keep the tower from falling into the creek and people who live on the island would not go Buffalo creek, on which he will Eastern Elevator Company.

association.

There was a fight in one of Jews and Poles some days ago, and the Buffalo papers came out as usual with big "scare" heads announcing a "Bread Rior." Of course the bread part was all imagination, as these people are far from starvation, but it caused considerable excitement and when Mr. W. C. Newman, the great Akron miller, finished reading the account the trouble he exclaimed: "Great Scott! a bread riot? and I am selling flour at \$2.25 per barrel, and the sack makes one pair of pants and a night gown!! Impossible! Why, there is'nt a back yard in East Buffalo not bleaching and advertising my "stone mill" bran of flour.

Buffalo at present and likely to be so until late in the season when the usual scramble for funds to carry wheat through the winter will begin. Buffalo bankers have been unusually generous to grain men throughout the late trying ordeal—that is some of them, especially the marine and the German-American. These two banks will in a short time handle all the grain business.

The state wheat crop has been heavy, but farmers are not marketing their crop at present prices. Oats are a failure.

The canal traffic this season has been something prodigious compared with last year. The total shipments to date were 29,500,000 bushels as compared with 15,200,000 last year and 16,900,000 in 1891. This has all been done at a paying rate, averaging 41/2 cents per bushel against 31/2 last year. Truly the old ditch is making up for lost time, but wait until next year when the roads are not so busy with other traffic and these figures will look sick. The rail up to date carried 45,-000,000 bushels, against 48,500,-000 last year and 36,000,000 in 1891.

The receipts of flour for the season thus far were 4,900,000 year and 3,100,000 in 1891. There is an unexpected falling off this season, but this may be made good this month, as the receipts are coming in heavy.

Canal forwarders have made no money. The old time speculator in freights has been caught and floored. As a rule he would have been better off taking the grain from shippers his labor. But a gambler is

dropped his all. F. Werdelman has purchased a site on Seneca street, at the

Huntley, Cranson & Ham-mond of Silver Creek, manufacturers of grain-cleaning mathe Buffalo markets between chinery are not as busy as usual at this time of the year and have reduced their force of

most unfortunate piece of property of its kind in the state. Complete in every respect, with all the necessary machinery, this mill has not been able to keep running for more than two months under one management. "looser" if there ever was one. A. K. Hume, who traded a lot of land for it and attempted to run it on "a new principle," has succumbed, and the mill will grind no more until another "sucker" is found.

Good paying mills are scarce. Money is as free as water in As Mr. George Urban would remark: "It takes money to buy honey."

Wheat is low-dreadfully low -in Buffalo. It was 20c per bushel higher last year on the in Buffalo. first day of August than it was this. I believe No. 1 Northern Duluth at 65½ spot is worth buying for a 20c advance. The talk of heavy receipts is all bosh, as farmers know they can loose nothing by holding on at these prices and will do so as soon as they have marketed

enough to pay off small debts.
Mr. Harris Fossbinder has been reelected one of the trustees of the Merchants' Exchange Gratutity Fund for a three year term. This is conthree year term. sidered quite an honor and especially so as his opponent was the popular ex-president of the Exchange, General Graves.

Samples of the new wheat from the Northwest are just beautiful as compared with last year's fairly good quality. The difference in price between the old and new No. 1 Northern is only 1/4c, whereas last year 2@3 cents was asked at the opening. Sales in this market from the 1st of September to the 10th averaged 100,000 bushels per day of c. i. f. Duluth wheat, which all went to millers at from 641/2 to 671/8. barrels, against 5,300,000 last Trade will be active from now on until the closing of navigation and it is predicted more wheat will be carried in Buf-falo this winter than ever winter than before.

The John T. Noye Manufacturing Company is furnishing a complete steam plant for Chase, Armstrong & Shaw, of Rochester. No dependance can be placed upon water and and exacting a commission for the company mean to be on the safe side even if the Genesee not contented until he has does furnish a fair supply of power nine months in the year.

Mr. A. P. Wright has been appointed manager of the Great within hailing distance of it. erect a flouring mill. The cost This new storehouse will be wheels that have been idle are the transfer are two more just about will be \$25,000 and work to be finished next spring and with

much is expected. Mr. Wright will find that times changed wonderfully since he was in the grain business.

Barley is very backward. Last year, at this time, the movement was heavy, but so far there is no signs of anything First reports favored doing. the maltster; there was plenty of barley and it was going to be awfully cheap. To-day, not a pound, practically, is offered at any price. The question is, what has become of it? Our buyers have picked up from 100,000 to 200,000 bushels each, in the west, at very low prices, but could find no more.

Millfeed has been active and strong and the prospects are for higher prices in the next 30 days. Coarse winter bran has been selling easily at \$16.25 sacked, and the supply light; spring \$15.25 and choice white middlings \$17.50. Low grade flour, of which quite a liberal amount has been in market, sold at \$16.75@\$17.00 per ton. Rye feed \$16.00 per ton and demand good.

Rye flour seems to hold its own at \$3.00, although the price of that cereal has not been so low in 15 years, sales having been made, within a week, of No. 2 at 46c. Rye is cheap at these prices and there is not a speculative article on the board which would pay better

if held until January. Major J. G. Heinold went to Chicago to see the Fair, but did not "enthuse" as much as other members of the Exchange. They could not get enough of it he did.

There is talk of a big mill on the banks of Buffalo river or within easy reach of it. Property on the Ohio basin has been figured for and as it offers good shipping as well as reeiving facilities it will probably be taken.

Mr. S. S. Guthrie is still confined to his room. His son Harry is attending to the business of the firm.

Mr. O. G. Spann, of Spann & Chandler, the largest barley dealers in this market, is west

n a business trip. Mr. George H. Wolcott returned last week from Chicago. Buffalo, Sept. 11, 1893.

#### DULUTH.

T requires no prophet to tell us that business will revive. It has revived, and while yet not so lively as it might be or will be, it is, nevertheless, so pronounced that every artery and fibre of trade is pulsating with the renewed energy, and business men all along the line have taken fresh courage. Out here, at this intermediate depot this clearing house between the Northwest and the Eastas old and useless as this one completed early in the spring. an old grain man at its head, terchange between the two

great sections has been resumed. A syndicate, capitalized at \$30,000,000 has just been organized with such men as D. Rockefeller, Wetmore, McDougall, the Merritts, etc., behind it, to take charge of the iron business of the limitless mines hereabout, and has commenced active operations. The idle saw mills have turned on steam and every mill at the head of the lakes is now in commission and the yellow boards are accummulating in great quantities about the great quantities about the upon the whole, was a satisfac-docks. The splendidly equipped tory one, yet the national denew flouring mills are just on the eve of starting-are putting finishing touches to machinery and appliances, while the older mills are constantly increasing their output. The great problem of moving the new wheat crop has been solved and the crop is moving. Millers are booking orders, and the commerce of the lakes, generally, has taken on a more healthful tone-these are some of the signs which indicate the trend of business, and they are so broad that the wayfarer who runs may read them.

The panicky feeling is steadily subsiding among the business houses here and money is coming out of its hiding place. If there was a certainty about 889,182 bbls. For the current the tariff the financial depression would soon pass into Zenith City as all her mam-history. Industrial affairs in moth mills will soon be in this part of the Northwest are largely affected by the iron business, and this great interest demands, first, that the tariff be let alone, or, second, if it is to be tinkered with, that the same period was as follows: such tinkering be immediate and decisive. While this question does not so directly interest the millers, the iron business is so extensive and such an important factor in commerce, generally, that every concern at the head of the lakes is more or less affected by what

affects it. The flouring industry has been among the first controlling businesses to respond to the demand for an increase of activity. The first week in this month the mills at the head of the lakes scored their biggest run since early last June. The output for that week was 44,083 bbls., a daily average of 7,347; the week previous the grist was 36,167 bbls. The Lake Superior, Freeman, Imperial and Duluth Roller Mills were in operation. Last week the output was still greater, the record being as follows: Produced 48,317 bbls.; shipped 46,024 bbls.; in store 17,022 bbls. There were received 179,661 bbls. by rail from the west, of which 104,369 bbls. were shipped, leaving in store, bbls. The output will be steadily increased by the old mills,

the outlook encouraging; orders are booked sufficient to keep time. The demand for feed is also strong, the mills quoting bran at \$13.00 and \$14.00 for red dog in 200 fb. sacks. Rates down the lakes have been an inducement to free shipment.

The crop year closed with the day's business, August 31, and the period was replete with interesting figures and milling and shipping data. The year, pression in the latter months was seriously felt. The volume of wheat handled was greater than that for any previous crop year, except for 1891-1892. The increase of the flour output from the mills included in secretary Welles' report, of the board of trade, was over 80 per cent; this increase was due largely to the new mills in Superior, the output from which, for the first time is noted in a crop year report. These mills on the South side of the bay during the year turned out 677,816 bbls., while the Duluth mills have a record of 929,800. The total grist for 1891-1892 was by the Duluth mills alone and amounted to year Superior will distance the commission.

The output of the Duluth and Superior mills for the crop year just closed as compared with the output for 1891-2 for

| The strine period | cao cao ac | TIO D.  |
|-------------------|------------|---------|
|                   | 892-3      | 1891-2. |
| Duluth.           | Superior.  | Duluth  |
| bbls.             |            | bbls.   |
| September 89,374  | 26,084     | 66,083  |
| October 163,670   | 39,345     | 66,587  |
| November 132,613  | 3 18,540   | 85,661  |
| December 71,094   | 29,367     | 59,397  |
| January 52,155    | 10,326     | 42,928  |
| February 48,193   | 3 16.751   | 77,220  |
| March 83,171      | 50,013     | 64,590  |
| April 51 503      | 3 90,438   | 63,992  |
| May 75,619        | 74,800     | 76,143  |
| June 56,463       | 3 94,901   | 87,256  |
| July 39,049       | 99,161     | 87,955  |
| August 66,897     | 7 128,090  | 94,855  |
| Totale 000 sor    | 077 010    | 000,100 |

The receipts of flour, for the year ending Aug. 31., as shown if by the report are largely increased over the year previous, the number of barrels in excess being 827,290. The flour shipments amounted to 5,459,174 bbls. or 1,371,531 bbls. more than for 1891-92.

The figures in detail, showing the production, receipts and shipments of flour are as fol- Instore this date, 1892 .....

| AC 44 12. |           |           |           |
|-----------|-----------|-----------|-----------|
|           | Output,   | Receipts, | Shipments |
| 1890-1    | . 539.337 | 2.323.222 | 2,859,149 |
| 1891-2    | . 889,182 | 3,391,954 | 4,087.64  |
| 1892-3    | 1,607,616 | 4,219,244 | 5,459,17  |

Their was a slight decrease of the receipts of wheat during the past year, the total number of bushels being 39,737,935, while the shipments were 34,of the railroad flour, 209,273 377,292. Of the receipts, the Duluth elevators stored 24,743,-390 bushels, and the elevators begin operation the increase The receipts and shipments of The straight-back

The flour market is fair and pared with the receipts and from the head of the lakes. shipments for the year previous, covering the same period, the mills in operation for some according to Col. Welles' report were as follows:

| Wheat  | 296,926<br>362,334<br>104,946                     | 1891-2,<br>bus.<br>51,355,368<br>637,081<br>111,337<br>161,392<br>31,288<br>20,668 | 1890-1<br>bus.<br>18,202,504<br>114,378<br>171,936<br>104,988<br>4,501<br>379,223 |
|--|---|--|---|
|  | SHIPMEN   | TS.  |   |
|  | 1892-3.<br>bus.                                   | 1891-2<br>bus.   | 1890-1<br>bus.  |
| Wheat<br>Flaxseed<br>Corn<br>Barley<br>Rye<br>Oats | 296,382<br>307,936<br>81,529<br>108,122<br>29,953 | 46,071,503<br>696,904<br>111,372<br>184,569<br>21,193<br>20,668                    | 16,132,179<br>111,330<br>263,430<br>104,988<br>382,470                            |
| T) ' '   | 4   |  |   |

Receipts and shipments of wheat and flour for four years previous to August 31st are shown in the following figures, with the amount of flour reduced to the equivalent in bushels of wheat and added to the amount of wheat received:

|       | Wheat.<br>bus. | Flour. W               | heat and<br>our, bus.    |
|-------|----------------|------------------------|--------------------------|
| 890-1 |                | 3,229,469<br>2,323,222 | 29,963,717<br>28,657,003 |
| 891-2 |                | 3,391,554<br>4,219,244 | 66,619,161<br>58,730,526 |

The figures of the state inspectors do not correspond exactly with those of the Board of Trade. The state figures show the following shipments: Wheat 35,582,158 bus.; corn 301,-000; oats 42,000; rye 88,000; bar-ley 116,000; Flax 351. Total ley 116,000; Flax 351. 36,570,158.

The production and ship-ment of flour at Duluth and Superior, and the receipts of flour and grain for August, as compared with the business in August, 1892, is shown by the following:

| Flour         | bbls. | produced<br>received | Dul.<br>Sup. | 1893.<br>66,897 }<br>128,090 }<br>734,816 | 1892.<br>94,855<br>628,836 |
|---------------|-------|----------------------|--------------|---|----------------------------|
| Wheat         | , bus |                      | 1            | ,508,237                                  | 1,181,576<br>32,397        |
| Oats,<br>Rve. | "     | "                    |              |   | 12,035                     |
| Barley        | "     | "                    |              |   | 5 916                      |

The shipments of flour and grain during August this year, as compared with August 1892, were as follows:

| Flour s<br>Wheat | n tran | sit    | <br>  |   | 189<br>127,<br>836,<br>8 856 | 58<br>94 | 1 | 1892.<br>675,72<br>1.924.44 |
|------------------|--------|--------|-------|---|------------------------------|----------|---|-----------------------------|
| Corn.            | ***    | and by |       | • |                              |          |   | 32,39                       |
| Oats.            | 44     | 44     |       |   |                              |          |   |                             |
| Rye,             | **     | 44     | <br>• |   |                              |          |   |                             |
|                  |        |        |       |   |                              |          |   |                             |

Wheat in store in Duluth on Monday Sept. 11 by grades, was as follows:

| No. 1 hard<br>No. 1 Northern              |    |  |   |    | 294,90<br>1,861,87 |
|---|----|--|---|----|--------------------|
| No. 2 "                                   | Ġ. |  |   | į. | 12.42              |
| No Grade Spring<br>Rejected and Condemned |    |  | ç |    | 11.07              |
| Special bin wheat:                        |    |  |   |    | 49 20              |
| Total                                     |    |  |   |    | 2,342,58           |
| Decrease during the week                  |    |  |   |    | 180 98             |

When the new wheat began to arrive the elevators were practically empty, and since the first installment the receipts have been heavy. Freight rates have advanced a trifle, yet the movement down the lakes has been active and a brisk shipment is anticipated for the remainder of the season. The abnormally low rate has led to some extraordinary big and as soon as the new mills of Superior 15,000,538 bushels. cargoes from here this season. for weighing flax seed shall be steamer will be greatly augmented grain for the crop year as com- Yuma now carries the banner kinds of grain.

This vessel cleared a day or two ago for Buffalo with 114,-000 bushels of wheat, beating the record. This is the largest cargo that ever went through the Soo, but the Selwyn Eddy has taken 138,000 bushels from Detroit to Buffalo.

The lack of currency has been something of a drawback in the matter of handling the new crop, yet the difficulties are being overcome and the new wheat is arriving in an unbroken stream from the The several exnorthwest. pediency schemes which were canvassed a month or so ago, among them clearing house certificates etc., have been laid aside for currency of the realm. Every proposition had insurmountable objections and before one that was acceptable in every particular was formu-lated there was no crying lated there was no crying necessity for it. Cash has been pulled out by some means or other and now the grain is being handled by the usual method. It is estimated that Minnesota has 40,000,000 bushels of average grade, which represents \$24,000,000, in the Duluth elevators. That was the amount of wheat handled here last year but for the current crop year the storage capacity has been greatly increased, and now there is no Board of Trade or other organization in the world that has a larger storage capacity for wheat than is under the Du-luth Board. It is believed that the elevators would not be compelled to stop receiving wheat on account of a lack of room, as was the case last year.

The Railroad and Warehouse Commissioners of the state have established fees for the coming year as follows: For inspection on arrival or "into store," for each car load 20 cents; for inspection "out of store" from public warehouses, 20 cents per car load to cars; 40 cents per 1,000 bushels to vessels; for inspection out of store, from private warehouses, 30 cents per car load to cars; 60 cents per 1,000 bushels to vessels.

The charges for weighing shall be as follows: For each car load weighed on arrival or "into store," 20 cents; for weighing "out of store," from public warehouses, 20 cents per car load to cars; 60 cents per 1,000

bushels to vessels.
On flax seed the charges shall be as follows: For inspection on arrival or "into store," 65 cents per car load; for inspection out, from public warehouses, 65 cents per car load to cars or per 1,000 bushels to vessels; out of store from private warehouses, \$1.00 per car load to cars or per 1,000 bushels to vessels. The charges as provided above for all other

The season is now so far advanced that the Board of Trade will probably defer building its new block until next season. All arrangements are about completed and if the start is not made this fall, work will begin early next spring. The new Board of Trade building will be the finest structure for a similar purpose in the Northwest.

Col. Welles, secretary of the Eoard of Trade, is taking a vacation visit to his father, who lives in Ft. Dodge, Iowa. Mr. F. E. Wyman presides at his desk. The state elevator has not

come out of the lawyers' pockets yet, where it was cached by a recent injunction. The site has been purchased here for the communistic building and the appropriation for the erection of the structure will probably be consumed by lawyers, jobbers and politicians.

The North Dakota Elevator Company's houses, with elevators at all the principal stations along the Northern Pacific in North Dakota, have recently been leased by the Monarch Elevator Company of Minneapolis. Approximately there were 78 elevators in the system. These are under the control of

F. H. Peavey & Co. George Spencer, receiver for the Lake Superior Elevator Co. and the Union Improvement and Elevator Co. has taken out licenses for all the elevators of these two companies at Duluth. This brings within the purview of the law every warehouse at the head of the lakes. Chief grain inspector Clausen is authority for the statement that of the 250 private houses in the state but few will be operated on account of a lack of capital by the owners.

The Imperial Mill is running to its full capacity, the first time for many months, and is turning out 6,000 bbls. of flour H. F. J. a day.

DULUTH, Sept. 12, 1893.

#### SUPERIOR.

THE flouring mills of Superior have settled the questions of free silver, the tariff, hard times and the like, and have begun business with the first of the new crop year, in earnest. Without an exception the mills report a bright outlook for the fall and winter trade and the largely increasing output for the last two or three weeks is in anticipation of a more active market. The output for August was the heaviest of any month since last October, and thus far in September, the August record, for the same number of days, is beaten. The new mills are not yet regularly installed and may not begin to add their quota to the output add their quota to the output until the latter part of the still holds at the 15-cent basis to crop he said: "In Cass county wards is foreman; George

lent shape and is about ready to begin the ceaseless grind. The other new mills are receiving farewell touches by millwrights and workmen. Lake Superior and Freeman Mills have been furnishing the greater portion of the output for the past two weeks; but the Minkota is now in commission, and it is understood will run at alively clip from now on. Prices this month have ruled firmer and higher and large orders meeting of eastern railroad are being received from both lines at Chicago, the situation domestic and foreign buyers. A little difficulty has been experienced in securing old wheat for grinding, but now all the full time to turn out flour enough to meet demands. The output for August was : Duluth, 66,897; Superior 128,090 were 734,816 bbls. received and 964,521 bbls. shipped.

The output and exports from the head of the lakes for the past four weeks, with comparisons were as follows:

| 189            | 3        |        |        |
|----------------|----------|--------|--------|
| Output,        | Exports, | 1892.  | 1891.  |
| bbls.          | bbls.    | bbls.  | bbls.  |
| Sept. 344,083  | 10,704   | 19,202 | 14.311 |
| Aug. 26 36,167 | 11,748   | 21,734 | 9,934  |
| Aug. 19 38,754 | 15,143   | 21,811 | 11.111 |
| Aug. 1242,265  | 21,318   | 20,860 | 12,427 |
| The figures    | for the  | week   | end-   |

ing Sept. 9 are are as follows: Mills Produc'd Shipp'd In Store Duluth, bbls.... 20,417 18,624 15,022 Superior, bbls.... 27,900 27,400 2,000

Total, bbls.... 48,317 46,024 RAILROAD REPORT, (FLOUR IN TRANSIT.) Receiv'd Shipp'd 49,471 42,715 10,200 7,200 94,940 44,854 22,050 9,600 Road. R. St. P. & D ...
North'n Pacific ...
Eastern Minn ...
C. M. St. P. & O ...

Totals..... 179,661

The wheat market for the past week has had a more vigorous tone and prices have been gradually tending upward. The receipts last week were 850,900 bushels at Minneapolis and 1,039,350 bushels at Duluth and Superior. Total 1,890,250 bushels against 789,627 bushels the week before, 764,439 bushels two weeks ago and 1,347,500 bushels the same time last year. Out of the 1,270 cars received during the week 598 were new wheat and all but 50 cars graded No. 1 northern. During the same week last year 701 cars of new wheat were sold and only 312 went No. 1 northern, the balance being below, mostly No. 2 northern. The shipments during the week were 241,200 bushels from Minneapolis and F. Pinkham, one of the largest 769,818 from the head of the lakes.

The total stocks in second hands in the northwest:

| In Minne<br>In Minne<br>In Dulut<br>In countr | eapolis<br>h and | Su  | ri | v | ar | te | e | r | i   | n | u | 88 | e  | 8 | r |  |   |          | 5,8 | 95<br>30<br>42 | ,23<br>,00<br>,58 | 36<br>00<br>34 |
|---|------------------|-----|----|---|----|----|---|---|-----|---|---|----|----|---|---|--|---|----------|-----|----------------|-------------------|----------------|
| Total   |                  |     |    |   |    |    |   |   |     |   |   |    |    |   |   |  |   | 9        | ,5  | 42             | .82               | 0.0            |
| Total   | Augus            | st  | 1  |   |    |    |   |   |     |   |   |    |    |   |   |  |   |          |     |                | ,86               |                |
| Total   | July 1<br>June 1 |     |    |   |    |    |   |   | . , |   |   |    | ě, |   |   |  | 4 |          |     |                | ,42               |                |
| Total   | May1             | 1.: |    |   |    |    | * |   | 1   |   | • |    |    |   |   |  |   | 23<br>41 | .3  | 46<br>88       | .83               | 1              |

month. The Listman mill has New York, and this figure is the average will not be above Cross will have charge of the turned over its machinery, likely to be maintained until the 13 bushels, but the quality is weighing department. Busi-

finding everything in excel- closing weeks of navigation, fine. In the Grand Forks counwhen an advance to 20 cents may be made. The rate to various eastern points, according to the new tariff sheets, are as The follows, in cents per 100 lbs:

Iollows, in centrs per 100 lbs.
New York and N. Y. rate points.
Boston and Boston rate points.
Boston for export.
Philadelphia and Phila, rate points.
Baltimore rate points.
Bighamton rate points.
Albany, Troy and Schenectady.
Utica, Syracuse and Rochester.
Corning.
Elmira rate points.
Buffalo and Erie.

It is extrad that of a rec

It is stated that at a recent was discussed and letters are said to have been sent out for the purpose of whipping trunk line officials into the mood to mills in readiness are running advance rates on the lakes, coupled with the threat that if it was not done the Chicago lines would reduce rates sufficiently to secure the business. It is bbls; total: 194,987 bbls. There the general opinion here that no immediate action will be taken by the trunk systems.

It has been finally decided to establish a sample market in this city and it is a move in the right direction. It has always been the opinion of millers and grain men that Superior is a desirable place for a sample wheat market and that it would eventually be the largest marketatthe head of the lakes. The conditions necessary, however, were never present to warrant it heretofore, but these have been supplied by the mills that are now in operation and others that soon will be, and the initial steps to organize such a market have been taken. The committee having had the matter under advisement, Messrs. Hurd, McCollum and Barton, after carefully considering the proposition decided to go ahead, and so reported. Arrangements have been made to procure quotations and the board will be established for the present in the Brennig block, where rooms have been offered free of rent for the next six months. Mr. Hurd states that it is unsatisfactory for the mills to buy on grade, and that when he could get the wheat he wanted for the Daisy mill on the Superior board he would make such purchases from Superior commission men. J. J. Atkinson will act as man-

ager of the board. Superior is tast becoming the favorite market at the head of the lakes. A day or two ago W. farmers of Cass county, North Dakota, arrived in the city with a car load of wheat of his own raising which he sold to good advantage. He said that Superior's fame—her big mills and big elevators-was well known among the farmers of his section of the country, and that a good deal of wheat would be sent through by the farmers

try the yield is heavy and the quality good." Mr. Pinkham owns 1,000 acres near Fargo.

A committee of grain and flour men will visit St. Paul this week to ask the Great Northern Railroad management to grant the same facilities for handling wheat that are granted by the Northern Pacific and the St. Paul & Duluth roads. These two roads hold up their cars in the upper yard where they are inspected and thence shipped to their several destinations without extra charge. The Great Northern sends cars down into the lower yard near the elevators, and after inspection, wheat, that is not consigned to the elevators is subjected to a switching charge of \$3 a car. The Great Northern will be petitioned to at least hold out cars in the upper yard that have been consigned to Superior dealers, whence, after inspection they may be switched to their proper destinations.

A meeting of the directors of the Listman mill was held last week to discuss matters on the completion of their fine mill plant. There were present William Listman of La Crosse, Charles Listman of Chicago, J. H. Knowles of Boston and James Barton of Superior. It was decided to make the permanent start as soon as the dredging could be completed in the slip adjoining the mill, and other matters had been put in ship-shape for convenient and economical work. It is expected that by the 20th of month the mill will be in full operation, and it is the announced intention to run day and night.

With reference to the rumored retirement of C. S. Pillsbury from the management of the system of mills and elevators which he sold to English capitalists, the mill men here think there is no foundation for it. J. S. Hillyer stated that it was doubtful if Mr. Pillsbury would give up his \$50,000 position to engage in the building scheme at Buffalo. "Buffalo" said Mr. Hillyer, "is not equal to the head of the lakes. Strong inducements were held out to us to locate at Buffalo instead of Superior. My own judgment is that Superior will always be the best

place in América for a large flouring mill. It is the nearest water point to the greatest wheat belt on this continent and within a few years I expect to see flour consigned directly from our docks to European When that time comes Buffalo will be distanced in the

milling business."
The Belt-line elevator has started business and is receiving wheat. William Erick is ness has commenced with a small crew, to be increased from time to time. Wheat is coming in rapidly.

About 100 cars of new wheat per day are arriving at the Sawyersystem. The size of the grain car is increasing. Formerly 300 to 350 bushels was a car load, but the new Great Northern grain cars are bringing in 1,000 bushels each, which means with these cars, 100 cars 100,000 bushels of wheat.

The following figures of the traffic through the "Soo" are for August and give a fair idea of the lake business for that

Eastbound freight, 1,109,252 tons; westbound freight, 470,858 tons; total, 1,580,110 tons. There were 2,744 passengers went eastward and 2,916 came westward.

The eastbound freight was as follows: Flour, 964,845 bbls.; corn, 208,400 bus.; wheat, 4,369, 885 bus.; building stone, 3,047 tons; copper, 13,671 tons; iron ore, 688,840 tons; pig iron, 5,067 tons; lumber, 81,000,000 feet; silver ore, 255 tons; unclassified freight, 24,786 tons. The westbound freight was as follows: Coal,420,593 tons; flour,565 bbls.; grain, 4,350 bus.; manufactured iron, 15,283 tons; salt, 12,771 bbls.; unclassified freight, 32,-429 tons.

It is estimated that there are on the docks in this city 765,000 tons of coal, with room for 400,-000 tons more. The coal receipts at the head of the lakes are not as large as they were at this time last year and the shipping to the close of the season, will be lively.

The barge works, where the famous wheat-carrying whalebacks are made, have started up again after a suspension of two months. A small force of men has been put to work which will be augmented until the full crew is employed. It is the intention of Capt. Mc-Dougal to turn out a number of handsome vessels this winter in anticipation of a big trade on the great lakes next

The Northern Pacific railroad, with two trains, is bringing about 150 cars of gravel a day to their yards at the east end, expending about \$100,-000 on the yards this season. The improvements which that road will make to its property in this city next year, are estimated to cost a half million dollars. All these improvements will facilitate the handling of wheat and flour and will tend to constantly reduce the transportation charges. Other companies are also on the alert to make Superior an economical, profitable and ideal milling point, and to build up a traffic in that line second to no other city in the world. J. F. H.

SUPERIOR, Sept. 13, 1893.

#### ST. LOUIS.

The wheat market is at present stronger than it has been for months. Cash wheat is ruling particularly good, selling for as high as 683%, a raise of nearly 15c from bottom prices. During the past month however, the wheat market has led a very uneven existence. A month ago it was still laboring under the baneful influence of the financial stringency, yet August sold at 60, September at 62% and December at 701/2. A week later prices had dropped 21/2 cents in spite of the light movement, decreased supply and the fact that the exports were larger than at any previous time this season. The following week the decline continued and on Friday, August 26, August sold for 571/2; September for 60 and December for 65. By that time every long had sold out and there was more of a shortage than ever. The next week found wheat stuck in the same low rut and almost impossible to attract any outside interest

So poor were the prospects that speculators admitted that they expected no improvement in the situation until spring and they expected cash wheat to remain as low as 60 till New Years. In this, however, they were agreeably disappointed, as cash wheat soon developed into a very cheerful feature, the demand for it steadily creased until this week it has become remarkably steady. In the past two weeks, though, somebody has been steadely slugging wheat. The selling especially conspicuous. was Every time December wheat would rear its head, a flood of offerings would sweep wouldbe buyers. The house of D. R. Francis & Co. sold an immense amount of wheat, part of which they had laid in about three weeks before, when the Ex-Gov. and H. Haarsteck were buying all the wheat in sight. Of late Francis and Armour are credited with a determination to prevent an advance in wheat by flooding the market with supplies. All in all, however, the wheat outlook is very fair, with cash wheat looking particularly bright.

The millers are feeling somewhat jubilant over the recent turn in the tide. The flour market which has been on the down grade for the past few months suddenly reversed itself last week and is tending strongly the other way. A11 through August trade was very poor, and although during one week the local mills had an output of 90,900 bbls. out of a possible 105,750 it was mainly to fill old orders. In the week from Aug. 13-19 the flour market was pronounced the dullest Sr. Louis, Sept. 14, 1893.

of the season, and it was moreover remarked that no improvement need be looked for till the financial difficulties were settled. Toward the end of August however, the market grew a shade better, and on the first of September the improvement continued and right smart export demand was one symptom of the new condition. Many sales were made on small margins but the appreciation in the rates of exchange and the reduction of freight rates made it possible for the local millers to accept bids made. Many bookings were made for English and Irish ports and also for the Continent. The output, the first week in September, was 95,200 bbls., a gain of 20,000 over the preceeding week.

The past two weeks, flour ruled very satisfactory, large lumps being sent to British and Irish points, as the present rates of exchange operate in favor of the seller. Quite an increase was noticed in the demand for domestic points. Mr. S. C. Buckingham, Secretary of the St. Louis Milling Co. when asked his opinion of the situation said: "The outlook is very fair, but until the prices of flour have risen somewhat, they have not risen as high as I expected they should in proportion to the rise in wheat Cash wheat is now 13 cents above bottom prices while flour is only up 25 to 30 cents a parrel. It should be higher almost 50 cents."

There are few happenings of interest among the local flour fraternity. No new mills have been opened during the past month or anything else of importance transpired. Our big St. Louis Exposition opened the other night though, and the inau ural address was made by a miller, Ex-Gov. E. O. Stanard, President of the Stanard Milling Co. Gov. Stanard is one of our most prominent and public spirited citizens and though he attends closely to his large business interests he always finds time to take part in any popular movement and push it to a successful issue.

Harold Meredith Kauffman, son of the millionaire miller, John W. Kauffman, will not go into business with his father here, but leaves in a few days for Yale to take the classical course there. He is one of the best foot-ball players in town and his many friends here expect to see him distinguish himself in the east.

H. W. Chandler, the well known grain speculator has gone into the electrical business as a side issue. He is general manager of the Missippi Valley Electric Co., and has an interest in the Woods Electrolier and electric lamps.

A JAPAN ROLLER MILL.

The following account is taken from a recent number of the London and China Telegraph:

A new industry has appeared in the Nagasaki in the form of the steam roller flour mill which has been running now for two years, being about the only mill of the kind east of Penang. The inception of this industry is due to a few of the energetic old residents of Nagasaki, who fancied they saw a good chance of making it pay. Plans were prepared, the necessary capital was raised, the co-operation of eminent Japanese business men was secured, the buildings erected and fitted up with machinery which embraced the very latest English, American and Australian patents and improvements, being constructed on the Hungarian roller principle. A visitor at the mill is at once struck by the cleanliness and comparative quiet of the establishment. There is scarcely a trace of flour dust to be seen, and there seems to be a strange absence of operatives, as the machinery is automatic, and very little manual labor is required. On the first floor may be seen a native feeding the machine with the grain from sacks just as it arrives from the the country, and on the ground floor may be seen another native workman disposing of sacks of flour which have been automatically filled to an exact weight by the machine, after the shoot has been fitted with an empty sack by a native woman. So that with the exception of an engineer in charge and an assistant engaged in oiling the machinery, the three natives above referred to are the only persons engaged in makthe flour. Dirt and extraneous matter is separated from the grain and disappears in one direction, sharps and bran in others, and three qualities of flour in yet others, till it reaches the sacks. The mill is lighted by electric light, and work is kept up continuously for 18 hours a day, the output averaging during that time 475 quarter sacks of flour, 17 piculs of sharps, and 70 piculs of bran. The flour is made from Japanese wheat only, and is remarkable for its strength and for the sweet and excellent bread that results from its use. Experience has proved that most excellent bread s made from a mixture of Californian (Sperry) and Nagasaki flour, which also gives in making an increase to 40 per cent. The French fleet use the Nagasaki flour, which in itself is no slight recommendation, and it is very largely used in Yokohama, and Hong Kong, where its quality is highly appreciated. The sharps and bran also find a ready sale at Yoko-hama and Hong Kong.

#### WAREHOUSE RECEIPTS.

Judge Williams Gives an Opinion of Interest to Grain Men.

Williams, Tudge of the United States Supreme court, handed down an opinion which the farmers will heartily endorse. It is that the Northern Pacific Elevator company is a mere bailee as to the wheat received from farmers, and is legally bound to return the wheat to the farmers upon the latter's presentation of the receipt from the company. As to the warehouse receipts delivered as security for money the elevator company, so Judge Williams holds, is practically a chattel mortgagor, and if it issued the receipts without being in possession of the wheat it had committed a fraud, or if it had wheat on hand at the time it issued the receipts and subsequently disposed of the same, it had misappropriated the wheat.

The point came up on the application of Receiver Forbes, of the Northern Pacific Elevator company, for an order allowing him to distribute to the farmers the wheat they had acttually delivered to the company upon the return to the company of its receipts. The creditors of the company objected to the application because it gave the owners of

receipts.

The decision of the court will effect about 240,000 bushels of wheat due to the farmers. The company has borrowed about \$1,100,000 and has issued warehouse receipts to secure the same to the amount of 1,750,000 bushels. The shortage in the wheat is about 500,000 bushels. The company claims that at the time it issued the warehouse receipts it had the wheat on hand, and that the shortage arose from the settlement of the May corner in Chicago.—Min-neapolis Tribune.

#### CHEAP WHEAT.

Wheat threatens to become cheaper every year in price and farmers realize that they must be willing to accept less than formerly for this product. The competition is stronger and the annual production on the average is steadily increasing. Not a few farmers seem to think that it would be a losing game to sell wheat for anything less than they have been receiving during the last few years. There are many grumblers who claim that nothing but ruin stares the wheat growers in the face and that it is better to get out of the business at once. It might be said in reply to this that there has obtained a patent for a new is not a business in existence which is not claimed by some to be at the extreme end of profit, and that shortly everything tion relates to a method of premust go to smash.

growers must expect to get even mixture to the substance to be less for their wheat in the future than they are receiving now, and they will make a fair profit off it. In parts of the West farmers are making money if they receive 45 cents a bushel for their wheat, and they claim it only costs them from 18 to 22 cents a bushel to raise it. This is a fair profit, and sufficient to repay them for all their troubles. This is an illustration of what can be done where the soil and climate are favorable. Now, a quarter of a century ago, the thought of receiving only 45 cents per bushel for wheat would have dumbfounded many a farmer, and they would have promptly answered that such a farmer would be a fool, for he would surely run in debt.

As our soils are improved by proper cultivation, enriched by vegetable and mineral fertilizers, and the whole business conducted in the light of modern discoveries, our wheat producers will find that they will bring about the conditions for growing wheat which makes it possible to-day for some farmers in the great wheat belt to make money when the cereal is selling for 45 cents per bushel. We are getting a higher average from an acre devoted to the culture of wheat nearly every year, and at a less relative cost. We wheat receipts a preference increase the crop by improving over the holders of warehouse the breed of wheat, and then give superior cultivation that surrounds the plants with even more favorable conditions than those existing naturally in the wheat belt.

> The cost of fertilization of wheat is slowly being solved. We find that a rotation of crops properly grown gives the best results, and then we can save expenses by buying the crude good in themselves, will only materials of fertilizers that are especially needed for wheat plants. In a hundred different ways such as these we increase the yield per acre, and then by reducing expenses to a mini-mum we find that there is still a margin for profit. Most of the farmers who are continually grumbling about no profit in wheat cannot tell for the life of them how much it costs them to raise a bushel of wheat. They know what they get for it and that is all. How do they know there is no profit in wheat growing? Unless they have an accurate idea of whatit costs them to raise a bushel of wheat, they can only guess at the profit or loss.—A. B. BARRETT, in Chi-that men of science were idle cago Journal.

THE PRESERVATION OF FLOUR.

Mr. Ludvig Fromm, Kotzschenbroda, Germany, method of preserving farinaceous products. In his specification he says:—"This inven-

preserved of a powder or 'flour' dreds of fellow-workers, writes of hazel nut. This method of a correspondent, I have come preservation will prove of great value when used in storing up any kind of flour or little understood by its craftkindred substances, and also baked goods, such as rusks or biscuits used in the army and navy; and it will also apply in case of vegetable or leguminus conserves, such as tinned vegetables, soup tablets, peas pudding and the like. In preparing the hazel nut flour, the kernels are first removed from the shell, and then (preferably after being roasted) are ground or reduced to powder; only the white substance of the kernel however is ground. This powder or flour is added to the goods to be preserved—cereals, pulse, or the like—in a proportion varying between 5 and 25 per cent, care being taken that the mixture is as thorough as possible, as it is important that the fatty element of the powdered hazelnuts shall pervade or permeate the whole of the substance. This fat does not become rancid, and at the same time acts as a deterrent against insects and caterpillars. The flour so mixed aquires, moreover, a property which enables the bread or other goods made of it to keep much longer than similar goods made of ordinary flour, the fatty or oily element preventing the absorbtion of moisture to a great extent, and consequently the formation of mould, mildew, or similar growths. Besides, the great quantities of albumen and fat contained in the hazel nut pulp enhance the value of flour or other product as such; as constitution of the body if the albumen and fat they contain are in the normal proportion to the hydrates of carbon.

#### MYSTERIES OF BREAD MAKING.

Less than one hundred years ago little or nothing known about bread makingthat is, no living man could account for its phenomena or give any explanation of any of its processes. Away back in the forties the first step was made in the discovery that yeast was a vegetable, a living growing plant. Here the door was opened, for further discovor sparing of their labor; neither were they crippled for want of means. Vast interests were involved, and science was fostered with a liberality seldom equalled in any other direction. Fermentation remained a mystery, and its king and queen, beer and wine, were

time I have conversed with hunmen as bread making. Any practical baker knows very well what he is about, and what is going to happen, al-though he may not be clever at giving explanations. His trade teaches him habits of close observation. He knows at a glance whether his work is going on right or not, but he is not clear at explaining. He knows what flour is, and he can give a fair account of its origin, manufacture and general properties. But the yeast which he adds to the flour, and which is the moving power in his hands-does he know what this is and how it acts on his flour? If he does I have never been able to get the definition out of him. Now, how is this state of things accounted for? Chiefly, I think, because bread making is one of the oldest of arts. If it were possible now for bread making to come out as a new art it would be pounced on by men of science and investigated. A good loaf of bread is the result of many conditions. The flour must be good, the fermenta-tion must be carried to its pro-per stage and no further. The oven has its private character; but the yeast is the backbone of all. Fancy loaves and cakes have become fashionable in these latter days, and it requires the skill of an experienced baker to mould a cake that will be attractive, and which will be suitable to place upon the banquet table at some notable gathering .-Confectioners Union.

THE Novelty Mill Co., of Seattle, Wash., has increased its capital stock to \$75,000 and has embarked in the China trade, making a first shipment of 800 sacks by the Northern Pacific steamship Tacoma.

· Wenatchee, Wash., offers liberal inducements to parties who

will erect a flouring mill there. New Whatcom, Wash., has guaranteed eastern parties, who desired to locate a flouring mill there, the proposed \$6,000 bonus, and the mill seems assured. The next move will be to secure an oat meal and fruit cannery.

The Yakima Milling company, of Yakima. Wash., advances a proposition to care for the 50,000 bushels of grain in the vicinity of North Yakima, paying fifty cents a bushel for it, or fully 10 cents above the market price for export, providing the merchants of the city will agree to handle the products of the mill in preference to that manufactured from and that shortly everything ust go to smash.

Now, the fact is, that wheat shortly everything can be says. This inventor and the says are says as the says a

#### DECIDED IN THE COURTS.

RIGHTS OF DIFFERENT OWNERS AS TO CONDITION OF WATER Course.—The Natural Right to have the water of a stream descend in its pure state must yield to the equal right of those above. Their use of the stream for mill purposes and other manifold purposes for which they may lawfully use it tender to render it more or less impure. The water may thus be rendered unfit for many uses for which it had before been suitable; but, so far as that condition results from reasonable use of the stream in ac-cordance with the common right, the lower riparian owner has no remedy. When the population becomes dense, and towns or villages gather around its banks, the stream naturally suffers still greater deterioration. Against such injury, incident as it is to the growth and industrial prosperity of the community, the law affords no redress. So in cities and towns, with their numerous inhabitants and diversified business, with their mills, shops and factories, with their streets and sewers, all the products and means of a high civilization, it would be impossible that the pure streams that flow in from the farmsides, should remain uncontaminated; and those that live upon the lower banks of such streams must, for the general good, abide the necessary results of such causes .-Bernard V. Shirly. Supreme Court of Indiana 34 N. E. Rep.

EASEMENTS IN WATER.-The right which a party has to the use of water flowing over his own land is undoubtedly identified with the realty, and is a real or corporeal hereditament, and not an easement. The right is inseparably annexed to the soil, and is parcel of the land itself. But no proprietor has the right to use the water to the prejudice of any other proprietor above or below him, unless he has aquired a right to use the water in some peculiar manner, and differently from what he would be entitled to do as mere riparian proprietor. This right he may aquire, by an actual grant or license from the proprietor affected by his operations, or by uninterrupted adverse enjoyment for such a length of time as would afford a presumtion of a grant, which in most of the States is a period of twenty years; in other words, an easement is created in favor of the owner of the dominant estate. An easement to foul or corrupt the water of a stream stand. may thus be aquired; so of an easement to discharge water upon the land of another, ter, with the knowledge that either by an artificial chan- a boiler lets go just as, and for nel, or by a pipe, or by drip the same cause that, steel or fails, because he has neglected from a roof; or to maintain iron in any construction fails, to have it kept in proper repair, can Machinist.

mill-dam; and a mill owner something of the past, but after may thus aquire a right to dis- all bridges fail and chains charge water from his mill by break, because well a raceway through the land of laws are not complied with, or another. And a right to maintain an acqueduct through another's land may be acquired by a user of twenty years or more. So the right to throw water upon the land of another may be aquired by a grant, and long usage may be evidence of such a grant. A title may be gained by twenty years' user, as well to artificial water-courses as to natural ones and it was held that the proprietor of lands below may, by prescription, acquire the right to have water, which in its natural course flowed through and over his lands, diverted from its natural course, and thrown back upon the lands of the proprietor above. But the doctrine of prescription, or presumption of a grant from lapse of time, has not been deemed applicable to the case of underground waters percolating through the earth. As it respects such waters, no rights are gained, since no one can be presumed to have granted that of the existence of which he must have been ignorant.

#### BOILER EXPLOSIONS.

It is indisputable that the number of boiler explosions in this country is alarmingly great, and it is equally true that a boiler does not explode without there being a very good reason for it-a very good reason and a very simple one. There was a time when it was believed by many that there were hidden causes for many boiler explosions, and a rather flourishing, if not remunerative business was done in the theoretical manufacture of some mysterious gas that never could be made to materialize except just at the time when no one had time to detect its presence, and the boiler went to pieces. There are, perhaps, still a few left who believe in the gas theory of boiler explosions, but their number is very small indeed, so small as to make no impression on current opinion. An overwhelming majority of engineers, at the present day, believe that if the cause of a boiler explosion is looked after in the right way, it will be found without the necessity of making some old gas theory do service, or inventing a new one; without bringing into the argument any unaccountable or unheard-of action of the water, or in any way going outside of what plain people can under-

water at a given height in a boiler explosions would be known approved practice followed, and so, too, boilers explode.

Safety in the use of a boiler is assured by proper construction in the first place, and correct practice in attention to and maintenance of it afterward.

This is easy to say and ought to bee asy enough of ac-complishment, but the everyday record of boiler explosions shows a great amount of ignorance and carelessness in these matters-either this or something worse.

Rigidly enforced inspection and license laws ought to provide the needed remedy, but it seems about impossible to secure such laws except in rare instances. Engineers, who ought to know their value, have worked for them for years, but with very indifferent success. Money and politics are against them, and money and politics generally win. The objections of boiler owners to laws that would bring about inspection of boilers and licensing of engineers are money objections, and politics is the means of preventing the passage of such laws. The history of the attempts of engineers to bring about the enactment of laws to the end named would be interesting if published. Promises to the desired end are the easiest thing in the world to obtain from legislators, but there is no intention of keeping such promises, and the really interesting, and what would be instructive thing if published, would be the ingenious manner in which these promises are broken while the semblance of keeping them is maintained. There is little hope for protection against boiler explosions through general laws for inspection and license.

There is one other plan against which boiler users could not very well object. Admitting that inspection will cost them something, and that a properly qualified engineer cannot be hired to work for as little money as a man who knows nothing in particular about the business, still these grounds for objection would be untenable except that they do not believe their boilers will explode; in fact, we are rather bound to believe that they would not endanger life for the saving of a few dollars. Then let there be a law that shall provide for determining It would seem that, with the exact cause of every boiler rather clear sailing in the mat- explosion and provision for publishing this cause. If Mr. Smith's boiler disastrously

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or because he put it in charge of Incompetency, or because he failed to have it examined in a way to determine its condition, let Mr. Smith's full name and location, together with all the facts in the case, be published by authority. He could not object to the passage of such a law, one of the provisions of which should be that nothing should be disturbed about the surroundings of the the explosion until after full legal investigation, because his boiler is one of those that is not to explode. In other words, those who objected to such a law would-if the rather common expression may be used - give themselves away.

We are of the opinion that the enforcement of such a law without the attachment of any penalty except one against failing to report an accident to a boiler, or placing obstacles in the way of investigation, would result in a rather remarkable decrease in the number of boiler explosions. There are quite frequently-most generallycircumstances connected with such disasters that would not look well in print, authoritatively circulated. A remedy is wan-

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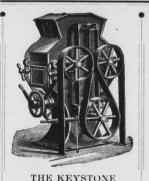
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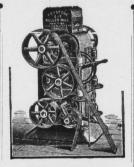
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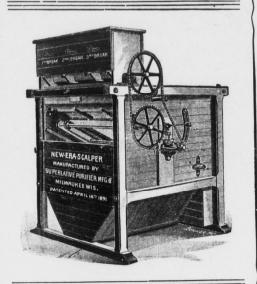
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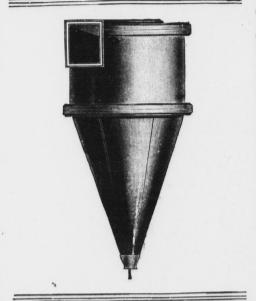
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